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A Survey of Apple Clones in the United States



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PREFACE

This publication reports on surveys of the deciduous fruit and nut clones being maintained at the Federal and State experiment stations in the United States. It will be published in three parts: I. Apples, II. Stone Fruits, III. Pears, Nuts, and Other Fruits.

This survey was conducted at the request of the National Coordinating Committee on New Crops. Its purpose is to obtain an indication of the volume of material that would be involved in establishing clonal germ plasm repositories for the use of fruit breeders throughout the country.

ACKNOWLEDGMENT

Gratitude is expressed for the assistance of H. F. Winters of the New Crops Research Branch, Crops Research Division, Agricultural Research Service, under whose direction the questionnaire was designed and initial distribution made. The author also acknowledges the work of D. D. Dolan, W. R. Langford, W. H. Skrdla, and L. A. Mullen, coordinators of the New Crops Regional Cooperative Program, through whom the data used in this survey were obtained from the State experiment stations. Finally, it is recognized that much extracurricular work was expended by the various experiment stations in completing the questionnaires.

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~~X~~SURVEY OF APPLE CLONES IN THE UNITED STATES~~X~~

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INTRODUCTION

The necessity of perpetuating species, strains, and cultivars of plants for use by research workers in agriculture and related fields has long been recognized. Much has been written on the subject, but the responsibility for the maintenance of such plant stocks rested upon the Federal plant introduction stations and those State and private institutions interested in specific items. Loss of interest in given groups of plants or attrition of funds and personnel has often resulted in a loss of specific items making them no longer available to the free world. The value of germ plasm thus lost will never be known.

An approach to the problem of perserving germ plasm for future use was considered by the National Research Council in 1944. After due consideration of the Council's recommendation, the Congress wrote a provision into the Research and Marketing Act of 1946 that the U.S. Department of Agriculture set up a National Program for the--preservation of new and useful plants of potential value--and for the preservation of valuable germ plasm.

The National Coordinating Committee for New Crops appointed a subcommittee to make surveys to determine how best to preserve germ plasm in seed form. As a result the National Seed Storage Laboratory was established at Fort Collins, Colo., in October 1958 by the U.S. Department of Agriculture.

The maintenance of germ plasm as seeds only partly solves the problem. Germ plasm of asexually propagated plant materials presents a more costly and complex proposition. Repositories in several locations to accommodate the climatic requirements of the various types of plants would be necessary. Sanitation and cultivation would also vary with the material involved. A technical staff would be needed to determine the best means of perpetuating the clones and keeping abreast with other problems that would arise.

As an approach to the second phase of the germ plasm storage problem, which involves asexually propagated material, the New Crops Research Branch, Crops Research Division, was requested by the National Coordinating Committee for New Crops

to assume leadership in making a survey of the clonal material being maintained in this country. It was decided to undertake the tree fruits and nuts first. A questionnaire was prepared on 5" x 8" file cards in the format shown on page 3. The initial distribution of questionnaires was made to State experiment stations through the Regional Plant Introduction Stations in October 1959. Other Federal stations were contacted direct by the Branch.

This present compilation is a survey rather than an inventory since it was not intended that this work be exhaustive. There are many institutional, commercial and private plant collections scattered throughout the country that probably contain clones not to be found at any of the locations contacted in this survey. To have solicited inventories from each of these would have involved work disproportionate to the basic purpose of the survey.

The first tabulation of questionnaires returned to Branch headquarters at Beltsville, Md., was made in May 1961. An analysis showed that of the 8,660 items reported 44.6 percent were apples, 30 percent were stone fruits, 15.6 percent were pears, 4.5 percent were nuts, and 5.3 percent were miscellaneous items.

As a result of this preliminary analysis it was decided to publish the survey of deciduous fruits and nuts in three parts:

I. Apples, II. Stone fruits, III. Pears, Nuts and Other Fruits. Other surveys will be assembled covering (1) sub-tropical and tropical crops, (2) small fruits, (3) vegetables, (4) forage and turf, in order of priority established by the National Coordinating Committee.

Of the survey on apples, approximately 4,500 items are recorded. About 500 additional items reported were of local interest only, hence, they are not listed individually. Brief statements on them are presented on appropriate pages.

The information obtained from the questionnaires was edited for botanical names and Plant Introduction (P.I.) numbers for each entry where applicable. Common names were edited insofar as reliable references are available. Some descriptive information obtained by a search of literature and correspondence was added by the author.

A limited amount of material listed herein has been indexed for certain viruses. This material is designated by an asterisk (*) after the station code where it is to be found.

It should be understood that the listing of any item in this survey does not guarantee that the item will be available from the indicated source in the future.

The key to the reporting stations and the abbreviations used in the descriptions appear on pages 4 and 6.

QUESTIONNAIRE USED IN CLONAL SURVEY

National Clonal Stock Inventory

Species

P.I. No.

Variety:

Most Common Synonym(s):

Station:

Station No.

Patent No.

Source:

Parentage:

Bud Mutation Of:

Pertinent Description and/or Value if Rootstock Clone:

Germ Plasm Value (Known Genetic Characters, Ploidy, Etc.):

Indexed for Viruses: Yes No Findings:

Anticipated Discard Date:

Prepared by:

Date:

CR Form 45(8-59)

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KEY TO REPORTING STATIONS*

AkP	Agricultural Experiment Station University of Alaska Palmer, Alaska	MdG	U. S. Plant Introduction Station Glenn Dale Maryland
CaC	U.S. Plant Introduction Station Chico, California	MeO	Agricultural Experiment Station University of Maine Orono, Maine
CnS	Agricultural Experiment Station University of Connecticut Storrs, Connecticut	MiE	Agricultural Experiment Station Michigan State University East Lansing, Michigan
IlU	Agricultural Experiment Station University of Illinois Urbana, Illinois	MiG	Graham Horticultural Experiment Station Grand Rapids Michigan
InL	Agricultural Experiment Station Purdue University Lafayette, Indiana	MiS	South Haven Horticultural Experiment Station South Haven, Michigan
IoA	Agricultural Experiment Station Iowa State University Ames, Iowa	MnS	Agricultural Experiment Station University of Minnesota St. Paul Campus St. Paul, Minnesota
KaM	Agricultural Experiment Station Kansas State University Manhattan, Kansas	MoC	Agricultural Experiment Station University of Missouri Columbia, Missouri
MdB	Plant Industry Station Beltsville Maryland		

* The symbols are similar to those used in the Plant Buyer's Guide, 6th edition, published by Massachusetts Horticultural Society.

NdF	Agricultural Experiment Station North Dakota State University Fargo, North Dakota	SdC	Agricultural Experiment Station College Station South Dakota
NdM	Northern Great Plains Field Station Box 203 Mandan, North Dakota	VtB	Agricultural Experiment Station University of Vermont Burlington, Vermont
NjB	Agricultural Experiment Station of Rutgers New Brunswick, New Jersey	VaB	Agricultural Experiment Station Virginia Polytechnic Institute Blacksburg, Virginia
NyG	Agricultural Experiment Station Department of Pomology Geneva, New York	WaM	Moxee Quarantine Station Moxee Washington
OhW	Ohio Agricultural Experiment Station Wooster Ohio	WaP	Agricultural Research Service Irrigation Experiment Station Prosser, Washington
OkS	Agricultural Experiment Station Oklahoma State University Stillwater, Oklahoma	WaW	Agricultural Research Service Box 99, P. O. Annex 103 Wanatchee, Washington
OrC	Agricultural Experiment Station Oregon State University Corvallis, Oregon	WiM	Agricultural Experiment Station University of Wisconsin Madison 6, Wisconsin
PaU	Agricultural Experiment Station Pennsylvania State University University Park, Pennsylvania	WiS	Ashland Spooner Pensular Station Sturgeon Bay Wisconsin
		WyC	U. S. Horticultural Field Station P. O. Box 1250 Cheyenne, Wyoming

ABBREVIATIONS

abt.	about	ft.	feet	ques.	question
arom.	aromatic	gnd.	ground	reg.	regular
astr.	astrigent	gr.	green	resist.	resistant
attrac.	attractive	ht.	height	rnd.	round
beau.	beautiful	hyb.	hybrid	rt.	root
br.	branch	ident.	identical	rus.	russet
brill.	brilliant	incl.	incline	sa.	subacid
brt.	bright	introd.	introduced	sdlg.	seedling
char.	characteristic	irreg.	irregular	sel.	selection
col.	color	lge.	large	sim.	similar
comm.	commercial	lt.	light	sl.	slightly
conic.	conical	lys.	leaves	sm.	small
cov.	cover	med.	medium	stor.	storage
crim.	crimson	mid.	middle	subj.	subject
culin.	culinary	mo.	month	suscept.	susceptable
def.	definite	mod.	moderate	tol.	tolerant
delic.	delicious	mut.	mutation	unif.	uniform
dess.	dessert	neg.	negative	v.	very
diam.	diameter	op.	open pollinated	var.	variety
diff.	different	orch.	orchard	vig.	vigorous
disc.	discovered	orig.	origin	vir.	virus
dk.	dark	ornam.	ornamental	w.	with
dwf.	dwarf	plt.	plant	wh.	white
excel.	excellent	pos.	positive	wk.	week
fls.	flowers	prod.	productive	vel.	yellow
fr.	fruit	qual.	quality	yr.	year

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Aargauer Jubilaums	134819	Switzerland 1939			MdG
Abbondanza	206542	Italy 1953			MdG
Abbondanza	206542	Glenn Dale, Md.	Fr. med.-lge., red stripes, attrac., rnd.-oblate, flesh firm, nearly wh., sl. acid, fair qual. Mid.-Oct. Early bearing.	AP-H-245 12292 66	InL, MyG, VaB NjB, OrC WaP NdM MoC
Abisinskoe	102097	Glenn Dale, Md.		A-3348	WyC
Acheson		Patmore Nur. Manitoba, Canada	Op. sdlg. of Delicious. Fr. lge., ovate, yel.	48414	WyC
Ada Red		Clingers Ozark Nur. Rogers, Ark.		36306	WyC
Ada Red					OkS
Adam	141867	Canada 1941			MdG
Adam		Skinner Nur. Ltd. Manitoba, Canada	Sdlg. of Siberian Crab.	49386	AkP WyC
Adel		Snyder Bros., Center Point, Iowa	High yielding.	34389	WyC
Adersleber Kalvill	132758	Germany 1939			MdG
Aikin		Snyder Bros., Center Point, Iowa	Sdlg. of unknown parentage.	A34389	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Akero	104776	Sweden 1934	Fr. med. (2"), rnd.-oblate, 70% pink stripe. Flesh firm, wh., sa., ripens unevenly during Sept. Good processing qual., v. hardy. Diploid.		NyG
Akero	104776	Glenn Dale, Md.	Pos. on R12740-7A.		InL*
Akin		Stark Bros. Nur., Louisiana, Mo.	Fr. med. (2 1/2"), rnd.-oblate, dk. red. 80% striped, attrac. Flesh creamv, firm, crisp, med. qual. Early Oct.		NyG
Alba	154154	Germany 1946			MdG
Alba	154154	Glenn Dale, Md.		48548	WyC
Alberta	151719	Canada 1945	M. baccata X sylvestris 'Hass'.		MdG
Alberta		Boughen Nur., Manitoba, Canada	High yielding crab.	32951	WyC
Aldenharn Purple	76590	England 1928	Vig. hyb. w. dk. purplish red fr. of good size.		MdG
Alexander	105128	Glenn Dale, Md.			InL
Alexander	105128	AES, Urbana, Ill.			NjB
Alexander		Sunset Nursery Missoula, Mont.	Fr. lge., red or striped.	36349	NyC
Alexander		Ellwanger and Barry Nur., Rochester, N. Y. 1883. Orig. Russia	Fr. lge., attrac., red or little striped, unif., sl. oblate-conic. Culin. Sept & Oct. In stor. until Nov. Uneven ripening. Tree lge.		NyG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Alexis		AES, Coll. Sta., S. D.	Seed from Russia. Fr. resembles Dolgo crab, long conic., polished, brill., dk. solid cherry crab w. attrac. blue bloom. Flesh yel., acid. Jelly crab. V. hardy. Prolific.		SdC
Alexis		AES, St. Paul Minn.	Scab resist.		InL
Alexis		AES, Coll. Sta., S.D.		33387	Wyc, NdM
Alfa 68	224306	Glenn Dale, Md.		5797	InL, NyG Wyc
Alfa 68	225109	Glenn Dale, Md.		11962 AP-H-198 A5798	NdM WaP Wyc InL, NyG
Alfa 68	247442	Sweden 1958			MdG
Allen's Choice		Snyder Bros., Center Point, Iowa	Crab	A34394 B-37368	Wyc MdG
Allington Pippin		England 1924. First exhibited 1889. Introd. as var. 1896.	Fr. med., rnd., conic, skin yel., some russet, flesh pink. Too acid for dess. but rich flavor, good qual. V. good culin. Nov.-Dec., Tree vig.		NyG
Almata		Robert A. Nitschke, Birmingham, Mich.	(Beautiful Arcade X Fluke 38) X Redflesh crab. Fls. red. Fr. rnd- conic. Skin solid brill. red. Flesh brt. red, juicy, sa. Early winter. Blight suscept.		NyG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Almata		AES, Coll. Sta. S.D.		11447 A48280	NdM WyC
Almata		Brand Peony Farms, Faribault, Minn.		27	VtB
Almata					SdC
Almey	210061	Canada 1953			MdC
Almey		Oscar H. Will & Co., Bismarck, N.D.	Erect grower, 11' ht. 4' spread. Hardy.	11222	NdM
Alpine	203808	Ireland 1953			MdG
Alpine	203808	Glenn Dale, Md.	Fr. med.-lge., gr. Flesh cream, firm, acid. Qual. poor. Sept.		NvG
Alred	162969	Canada 1948			MdG
Alton		AES, Geneva, N.Y.	Early McIntosh X [NY 845 (Red Canada X Yellow Transparent)]. Fr. sm., sim. to Crimson Beauty. 90% dull splashed red, mild sa. Dess. & culin. Summer ripening.		NyG
Alton		AES, Geneva, N.Y.			IlU, PaU, WyC
Amanishiki	199525	Japan 1952			MdG
Amanishiki	199525	Glenn Dale, Md.	Rall Janet X Indo. Fr. med., skin yel. cov. w. red stripes. Fairly attrac., rnd.- conic. Flesh creamy, firm, sa., good. Mid.-Oct.		NyG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Amanishiki		Glenn Dale, Md.			CnS
Amanishiki					InL
Ambir Kashmir	222275	Glenn Dale, Md.	Hardy apple from Kashmire.	72	MoC
Amer Gautier	136243	France 1940			MdG
Amer Gautier	136243	Glenn Dale, Md.	V. late blooming, cider apple.		NjB
Amer doux petite	162543	Glenn Dale, Md.	Cider apple.		NjB
Amere de Bellevue	162060	France 1948			MdG
Amere de Berthecourt	127311	France 1938			MdG
Amere de Berthecourt	127311	Glenn Dale, Md.	Fr. sm., wh.-gr., rnd.-conic. Flesh nearly wh., sweet, astr. Poor. Late Oct.		NyG
Ameret	158727	Canada 1947			MdG
American Forestier	173978	France 1949			MdG
American Forestier	173978	Glenn Dale, Md.	Fr. med., rnd.-conic., red stripes. Flesh creamy, sa., fair qual. Late Oct.		NyG
American Summer Pearmain		Robert Nitschke, Birmingham, Mich. 1957	Fr. med., oblong to rnd., often conic. Skin gr.-yel. w. dull purplish-red flesh. Good cooking & dess. Good amateur fr. Ripens evenly, Aug.-Sept.		NyG
Ames		Shermain Nur. Co., Charles City, Iowa	Allen's Choice X Perry Russett.	48214	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Amsib Crab	127686	AES, Coll. Sta. S.D.	M. ioensis X baccata.		MdG
Amsib Crab		AES, Coll. Sta. S.D.	High yielding.	A33384	WyC
Amisk	128398	M. B. Davis, Ottawa, Ontario, Canada 1938		A38671	WyC
Amisk	155450	Canada 1946			MdG
Amur		AES, Coll. Sta. S.D.	Fr. sm. Intense brt. red w. lt. bloom, bitter, drops easily, retains col. well in cooking. Tree up-right, lt. blight. V. ornam. Early Sept., v. hardy. Good source of sdlg. rootstocks.		NdM, SdC
Amur		Boughen Nur., Manitoba, Canada	Sdlg. of Cherry crab. Sm. fr.	A32957	WyC
Anaros		Manitoba Hardy Nur., Manitoba, Canada		B-36729	MdG
Anaros	139664	Canada 1941			MdG
Anaros		Skinner Nur. Ltd., Manitoba, Canada	Sdlg. of Antonovk. Hardy. Fr. ripens early Sept.	A49385	AkP WyC
Anderson Twenty Ounce		E. H. Anderson, Lockport, N. Y.	Bud mut. of Twenty Ounce. Ident. to Twenty Ounce, except much more highly & solidly colored.		NyG
Anis		Dominion Exp. Sta., Manitoba, Canada Russian origin.	Early season, good yield.	A49434	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Anisette		Elmer M. Reeves, Waverly, Iowa Russian origin	Early season, good yield.	A33545	WYC
Anisette			V. sim. or ident. to Duchess.		NdM
Anisim		AES, Mandan, N.D.	Fr. sm., med. red, flavor fair, tart, firm, mid-season, stor. to Feb. Blight-light; flesh gr. Hardy.		NdM
Anisim		Wheelock Wilson Nur., Marshalltown, Iowa Russian var.	A parent of Joan. Imparts snow-white flesh to progeny.		IoA
Anisim		Sherman Nur. Co., Charles City, Ia.	Frs. yearly, good yields.	A32834	WYC
Anisim			Hardy.		SdC
Anissovka	105200	Russia 1934			MdG
Anniversary	151251	Canada 1945			MdG
Anoka		North Platte, Nebr.	Mercer X Duchess. Fr. med., red stripe, tart, culin., poor qual., no stor. Tree v. hardy, v. early bearing, good yields, mod. growth. Early.		NdM
Anoka		AES, Coll. Sta. S.D.			SdC, OrC
Anoka		AES, Coll. Sta. S.D.		A32915	WYC
Anoka		Scarff's Nur., New Carlisle, Ohio			MiG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Anoka		Inter-State Nur., Hamburg, Iowa			IoA
Anoka			Early summer, v. hardy.		NjB
Antonovka	103442	Glenn Dale, Md. Russia 1933	Positive on R12740-7A.		InL*
Antonovka	104990	South Dakota 1934			MdG
Antonovka	104990	Glenn Dale, Md.	2 yrs. neg. on R12740-7A.		InL*
Antonovka	107196	Glenn Dale, Md.	Positive on R12740-7A.		InL*
Antonovka		Cal Cooper, Pateros, Washington	Hardy trunk stock.	AP-H-229	WaP
Antonovka		Manten's Nur., British Columbia, Canada 1953.		141	VtB
Antonovka		Strands Nur., Taylors Falls, Minn. Russian origin	Good yield.	A33663	WyC
Antonovka					InL, NdM
Antonovka Funtoraja	231295	Glenn Dale, Md.	Pos. on R12740-7A also contains mosaic.		InL*
Antonovka Kamenithka	137036	Switzerland 1940			MdG
Antonovka Kamenithka	137036	Glenn Dale, Md.		AP-H-248	WaP InL*
Antonovka Kamenithka	137036	AES, Urbana, Ill.	Positive on R12740-7A.		NjB

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Antonovka Kamiennaja		W. T. Gorjascowski, Skilmiehic, Poland 1931	Fr. med., irreg. shape, skin gr., sl. russet around stem. Flesh greenish, coarse, juicy, poor qual. Sept.-Nov.		NyG
Antonovka Monastirskaia	107195	Glenn Dale, Md.	Mitchurin's varieties.	A42245	WyC
Antonovka Monastirskaia		Russia	Unknown parentage. Fr. gr.- yel., fair-good qual. Tree hardy, vig. w. fair growth habit, Little scab & blight infection.		SdC
Antonovka Monastirskaia		AES, Brookings, S. D.	Unknown parentage. Fr. gr., low qual. Resist. to scab, v. suscept. to fireblight. Hardy trunk stock.	AP-H-390	ILU WaP
Antonovka Monastirskaia			Positive on R12740-7A.		InL*
Antonovka Pamtorotaka	321294	Glenn Dale, Md.	Positive on R12740-7A.		InL*
Antonovka Polterarar		Russia	Unknown parentage. Fr. gr.- yel. w. red blush, sweet, fair qual. V. prod. but drops when mature. Tree vig., hardy. Free of scab & blight.		SdC
Antonovka Polterarar		AES, Brookings, S. D.	Hardy trunk stock.	AP-H-391	WaP

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Antonovka Poltorafuntonaja		Kornik Inst., Dept. of Pomology, Kornik, Poland 1934	Fr. lge., uneven shape, usually rnd.-oblong, ribbed. Skin lt. vel. sometimes w. sm. washed lt. orange blush. Flesh gr.-wh., coarse, juicy, acid, arom; qual. fair, good processing. Sept.-Nov.		NyG
Antonovka Shafran	104990	Glenn Dale, Md.	Hardy trunk stock. 3 yrs. neg. on R12740-7A.	AP-H-389	WaP InL*
Antonovka Shafran	107311	Russia 1934			MdG
Antonovka Shafran		Russia 1934	Fr. vel., overlaid w. red, poor qual., incl. to cluster. Hardy tree, vig. grower w. wide angle branching. Some scab present, no fireblight.		SdC
Antonovka Shafran		AES, Coll. Sta., S.D.	Hardy trunk stock.	AP-H-392	WaP
Antonovka Shafran			Possibly winter hardy stock.		PaU
Antonovka Zheltaia	107310	Glenn Dale, Md.	Shows promise of hardy frame- work var. Being indexed.		MeO
Antonovka Zheltaia		AES, Orono, Maine			NjB
Argile Grise		H. P. Bulmer & Co., Hereford, England 1933	Fr. sm., oblate, partly striped. Flesh creamy, soft, sa., not astr. Late Sept. Poor.		NyG
Argile Grise	158728	France 1947			MdG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Arkad Ziminee		Russia 1934	Parentage unknown. Fr. gr.- yel. w. dull red stripes. Flavor mild sa., fair-poor qual. Tree vig. & hardy w. excel. branching habit. Little scab & blight infection.		SdC
Arkad Zimnyi	259446				MdG
Arkansas		T. E. Stinson, Fayetteville, Ark. 1957	Fr. med.-lge., unif. shape, sometimes sl. conic., gr., later yel. w. deep red blush sometimes dkr. striped. Flesh firm, crisp, good, sa., med. qual. Dec., Good stor. Tree rather vig., lge. *		NyG
Arkansas					PaU, NjB
Arkansas Black		Fred Sturn, Yakima, Washington		AP-H-207	WaP
Arkansas Black		Benton Co., Ark. 1945			OrC
Aromatic Russett	199415	England			MdG
Aromatic Russett	199415	Glenn Dale, Md.	High qual., russet winter.	7 AP-H-244	NjB MoC WaP
Arrow	148703	Canada 1944	Sdlg. of M. sylvestris var. Niedzwetzkyana.		MdG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Arrow	148703	Glenn Dale, Md.	Fr. v. sm., almost all red. Flesh red, v. astr., no qual. Early Oct. Shows promise as hardy framework var. Being indexed.		NyG, MiG, MeO*
Artic Dawn	231272	Canada 1956			MdG.
Ascot		Dominion Exp. Farm, Manitoba, Canada	N. Spy. Fr. lge., oblate. Med. red, striped 3/4. Fair qual.	N3256	MnS
Ashmead's Kernel	131433	England 1939			MdG
Ashton Brown Jersey	161828	England 1948			MdG
Askey					PaU
Astrachan	104802	Sweden 1934			MdG
Astrachan		LeRoy Childs, Hood River, Oregon		AP-H-212	WaP
Astrachan					CnS
Athabasca	128399	M. B. Davis, Ottawa, Ontario, Canada 1938	M. baccata X pumila.	A38672	WyC
Athabasca	148704	Canada 1944			MdG
Athabasca	155451	Canada 1946			MdG
Atlas		Canada	Winter St. Lawrence op. Fr. med.-lge., red stripe. Flesh wh., med.-firm, sa., dess.- culin., flavor good. Late summer, store to Jan. V. suscept. to blight.		NdM, NjB, NyG WiS, WyC

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Aunt Lucy		Mrs. M. Mason, E. Bloomfield, N. Y. 1930	Fr. lge., oblate, gr.-yel. Flesh creamy, med. firm, sa., fair to good. Late Sept.		NyC
Authur Lewis	157201	England 1947			MdG
Azwell		Azwell Orch. of Wells & Wade Co., Azwell, Washington		AP-H-270	WaP
Azwell		Van Well Nursery, Wenatchee, Wash.	Delicious bud sport.		OhW
Babbitt		Stark Bros. Nur., Louisiana, Mo.	Sdlg. Fr. med. size, oblate- oblong, streaked w. red. Flavor good to fair.		OhW
Babine	148490	Glenn Dale, Md.	M. sylvestris var. Niedzwetzkiana X M. baccata, Fr. sm., rnd.-conic., 80% dull blush, flesh lt. brown. V. astr. Late Sept.		MiG, NyG
Bades seedling		Al Bade, Ridge- field, Washington		AP-H-314	WaP
Bailey Sweet		Snyder Bros., Center Point, Iowa		A33620	WyC
Baird		Eldred Buer., Canby, Minn.		N4969	MnS
Baladi	187099	Egypt 1950			MdG
Baldwin		Maine	Indexed for stem pitting vir.		MeO*

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Baldwin		D. & T. Smith Co., Geneva, N. Y. 1897	Fr. med.-lge., attrac., good qual. dess. & culin, excel. late storage. Vig. tree.		NyG
Baldwin		Kelly Bros. Nur., Dansville, N. Y. 1952		147	VtB
Baldwin		Willis Nur., Ottawa, Kansas	Chance seedling.	A341329	NyC
Baldwin					CnS, MiE, IU PaU
<u>Baldwin Sports</u>					
Canada		Cal Cooper, Pateros, Washington		AP-H-230	MaF
Colby		F. L. Colley, Enfield, N. H. 1925	Dkr. than common Baldwin. About 90% dr. red blush.		NyG
Galbraith		Bountiful Ridge Nurs., Princess Anne, Md.	No different from Baldwin.		OnW
Galbraith		AES, Amherst Mass. 1953			OrC
Galbraith		AES, Amherst Mass. 1940	Baldwin type, fr. highly colored.		NyC
Galbraith		N. Y. F. T. A., Geneva, N. Y. 1957	Red sport of Baldwin.	49	MoC
Loop		N. L. Loop, North East, Pa. 1934	Dull, redder than Baldwin. Not as dk. as Colby Baldwin.		NyG

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Loop		H. S. Loop, North East, Pa. 1934	Fr. surface heavily russeted. No comm. value.		NyG
Ballyfatten	203809	Ireland 1953			MdG
Ballyfatten	206021	Ireland 1953			MdG
Ballyfatten	206021	Glenn Dale, Md.	Fr. med. size, 70% dull blush. Flesh firm, sl. acid. Qual. fair.		NyG, InL
Bancroft		Centr. Exp. Farm, Ottawa, Canada 1950	Forest X McIntosh. Fr. med., skin thick, glossy gr.-yel. w. dk. crim. blush. Good qual. Jan.-Apr. Tree vip.	N5132	MnS, NyG
Bancroft				173	VtB Nj3
Banks		Stark Bros. Nur., Louisiana, Mo.	Fr. med.-lge., gr., 50% splashed. Good qual., sim. to Gravenstein but less acid. Mid. Sept.		NyG
Bapuskina		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4854	MnS
Barbarie	125744	France 1937			MdG
Barry		Introd. by Station in 1957	McIntosh X Cox Orange. Fr. med.-lge., solid dk. red blush. Qual. good-v. good. Ripens 2 weeks before McIntosh.	4111	NyG

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Barry		AES, Geneva, N. Y.		AP-H-377 N588	WaP MnS NjB, IlU, PaU MiG
Barry		AES, Orono, Maine 1960			MeO
Battleford		Exp. Sta., Canada	Fr. med., oblate-oblong, gr.-vel. w. red stripes. Flavor good.		OhW
Battleford		Boughen Nur., Manitoba, Canada	Sdlg. of Russian from Saskatchewan.	A48390	WyC
Battleford		Boughen Nur., Manitoba, Canada	Weak growth habit.		AkP
Battleford #2	144010	Canada 1942			MdG
Bayfield		Jewell Nur. Co., Lake City, Minn.		A32762	WyC
Beacon		AES, Excelsior, Minn.		AP-H-117 M-763	WaP Wam*
Beacon		Cal Cooper, Pateros, Wash.		AP-H-227	WaP
Beacon		Daniels Nur., Long Lake, Minn.			MiG
Beacon		Farmers Seed & Nur. Co., Faribault, Minn.	Malinda op. sdlg. Fr. med., well col., flavor good, sa., summer apple, dess.-culin. Med. hardy.	12129	NdM

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Beacon	260727	Andrews Nur., Faribault, Minn.		3-38359	MdG
Beacon		AES, St. Paul, Minn. 1936	Malinda op. sdle. Solid red, qual. good, early prod.		NyG
Beacon		N. Y. F. T. A., Geneva, N. Y.	Red summer apple.	43	MoC MeO
Beacon		AES, St. Paul, Minn.	Early maturing fr. med. size, fair to good qual. Good stor.		SdC, MnS, MiE, WiS
Beacon		Andrew's Nur., Faribault, Minn.			NdF
Beacon		Sherman Nur. Co., Charles City, Ia.	Med. size apple.	A48213	WvC
Beacon		Inter-State Nur., Hamburg, Iowa			IoA
Beacon		Summit Nurs., Stillwater, Minn.	Early summer, v. hardy.		NjB
Beacon		F. J. Strang of Emlong Nurs., Stevensville, Mich.	Fr. ripen 10-14 days before Wealthy. Sim. to Opalescent in size, col. and shape. Tree resist. to fire blight & scab. Quite suscept. to cedar rust. Late Aug.		KaM, NyG, OhW
Beacon		AES, Lafayette, Ind.			IlU, OrC, PaU
Beacon			Fr. brt., solid red.		VaB

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Beacon		Moses Fell Annex Farms, Bedford, Ind.		AP-H-156	WaP
Beacon		Heuser Nurs., Hartford, Mich.			MI6
Beacon		Loren J. Doud, Wabash, Indiana		A5765	WyC
Beacon			2 yrs. neg. on R12740-7A.		ILU, OKS, InL*
Beau Roger	162706	France 1948			MdC
Beautiful Arcade					InL
Beauty		Brand Peony Farms, Faribault, Minn.		30	VtB
Beauty (Not Sutton's)		Plumfield Nurs., Fremont, Nebraska	S.D. sdlg. of Cherry crab.	34275	WyC
Beauty of Stoke	131434	England 1939			MdC
Bechtel Crab		Gurney Nur. Co., Yankton, S. Dak.	Ques. as to ident. Ht. and spread abt. 8 ft., some fire blight injury.	8990	NdM
Bechtel Crab				25	VtB
Bedan	125745	France 1937			MdC
Bedan des Parts	123733	France 1937			MdC
Bedan des Parts	123733	Glenn Dale, Md. 1946	Fr. sm., rnd.-conic. Flesh cr.-creamy, firm, sa., qual. only fair. Late Oct.		MyG
Bedanpe Rouge	162707	Glenn Dale, Md.	Cider apple		NdR

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Bedford		Skinner Nur., Manitoba, Canada	Sdls. have unif. growth, good for rootstocks. Hardy crab.		NdF
Bedford		Dominion Exp. Farm, Manitoba, Canada	V. hardy, orange red crab, 44/lb., oblate, juicy, jelly type, cluster. Mid. Sept. Good rootstock sdlg.		NdM
Bedford		Bouphen Nur., Manitoba, Canada	Med. size crab.	A32952	WyC
Bedford	151641	Canada 1945			MdG
Bedford Pippin	127004	England 1938			MdG
Bedford Pippin	127004	Glenn Dale, Md.	Non-oxidizing flesh.		NjB
Bedford Red		Westminister Nurs., Westminister, Md. 1938	Fr. lge., striped w. red, attrac. Flesh yel.-cream, sa. Fair qual. Mid Oct.		NyG
Belfler Kitaika	107200	Russia 1934			MdG
Belfor	212369	Glenn Dale, Md.	Fr. med., red, attrac., mild sa. Prod., early-bearing. Late fall, early winter.	AP-H-193 A-5784	WaP WyC
Bella de Jardines	105498	Spain 1934			MdG
Bella di Pontoise	102537	Italy 1933			MdG
Bella di Pontoise	102537	Glenn Dale, Md.			InL
Belle de Boskoop		England 1928	Fr. lge., oblate, irreg., gr.- yel. w. red blush. Flesh creamy, firm, tender, juicy, crisp, sa., good. Oct.-Dec., in stor. Feb. Tree lge.		NyG

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Belle de Crollon	162544	France 1948			MdG
Belle de Crollon	162708	France			MdG
Belle de Magny	162718	Glenn Dale, Md.	Cider apple.		NjB
Belle de Mai	117694	Morocco 1936			MdG
Belle Fille	162709	France 1948			MdG
Bellefleur Fenise #9		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4895	MnS
Bellefleur Kitaijka	154157	Germany 1946			MdG
Bellefleur Kitaijka		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4857	MnS
Bellefleur de Brabant Rouge	161757	France 1948			MdG
Bellefleur Double	137090	Belgium 1940			MdG
Bellefleur Rekord	259447	Poland 1959			MdG
Bellefleur Rocard #58		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4883	MnS
Bellefleur Rouge	245048	France 1958			MdG
Belleflower			Winter apple.		MIe, NjB
Belleflower Kitaika		Russia 1934	Fr. yel. w. dull red stripes. Fair qual. Tree hardy but sm. Scab infect. often severe.		SdC

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Belle Imperial	126495	France 1948			MdG
Belle Norman (Perthyres)	161829	England 1948			MdG
Belle Sans Peppin		Croux & Files, Chatenay, (Paris) Seine, France 1902	Seedless. Fr. cov. w. red stripes, unattrac. Flesh firm, sa., poor. Mid. Oct.		NyG
Ben Davis		Plumfield Nur., Fremont, Nebr.		A322466	NyC
Ben Davis		P.I. Berckmans, Augusta, Georgia 1942	Fr. med.-lge. Flesh wh. to yel., firm, sl. arom., juicy, mildly sa., good. Skin tough, waxy, yel. w. red blush, splashed w. red carmine. Stor. Jan.-June. Tree med. size, strong built.		MiE, NjB, NyG PaU, CnS
Ben Davis, Black		Stark Bros. Nur., Louisiana, Mo. 1897	V. sim. to Ben Davis, 100% red, attrac.		NyG
Benitts Roter Finkenwerde	194096	Germany 1951			MdG
Benitts Roter Finkenwerde	194096	Glenn Dale, Md. 1953	Fr. lge., 100% striped, un- attrac., conic., scurf skin. Flesh cream, sl. acid, fair. Mid. Oct.		NyG
Benoni		Orig. in Mass. abt. 1830. R. C. Ander- son, Kansas City 13, Mo.	Fr. med.-sm., orange-yel. w. 60% red, striped w. carmine. Flesh yel., firm, crisp, juicy, sa. Good-v. good. Aug.-Sept. Tree lge., vig., erect, dense.		NyG

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Benoni		Synder Bros., Center Point, Ia.	Med. sized fruit.	A33606	WyC
Berglander	131964	Belgium 1939			MdG
Bernard	128400	M. B. Davis, Ontario, Canada		A38673	WyC
Bessemianka	107202	Glenn Dale, Md.	Seedless. Excel. tree as hardy framework var. Tol. to stem pitting virus.	A42252	MeO# WyC
Bessemianka	107202	ALS, Orono, Me.			NjB
Bessemianka		Russia	Fr. gr. w. dull red over part of fr. Fair-poor qual. Tree hardy, rank grower, lge., thick lvs., good branching habit. Free from blight and scab.		SdC
Betty Geeson	141234	England 1941			MdG
Bourriere	136246	France 1940			MdG
Beverly Hills		D. N. Chandler, Los Angeles, Calif. 1948	Melba X Early McIntosh. Fr. pale yel. w. red stripes, splashed w. red. Flesh wh. Qual. good. Resembles McIntosh.	N4842A	NyG MnS
Beverly Hills		Armstrong Nur., Ontario, Calif.			OhW
Bielyj Nolin		Kornik Inst., Dept. of Pomology, Kornik, Poland 1936.	Fr. med., wh.-yel. Flesh nearly wh., v. soft, sa. fair. Mid. Aug.		NyG

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Bietigheimer		Glenn Dale, Md. 1897	Fr. lge., ltly. cov. w. splashed stripes. Flesh wh.- cream, sa., fair. Mid. Sept.		NyG
Bietigheimer		AES, Urbana, Ill.			NjB
Big Washington		Minn. Evergreen Nur. Co., Crystal Village, Minn.		N54608	MnS
Bilek Winter		Summit Nurs., Stillwater, Minn.		A36415	WvC
Binet Blanc	122598	France 1937			MdG
Binet Blanc Dore	158729	France 1947			MdG
Binet Rouge	158730	France 1947			MdG
Binet Violet	136247	France 1940			MdG
Bingo		D. T. Macoun, Centr. Exp. Farm, Ottawa, Canada 1933	Fr. sm., 75% striped. Flesh gr.-cream, firm, sweet, astr. Early Oct.		NyG
Bismark		J. J. Butzer, Portland, Oregon		A33226	WvC
Bismer Crab	127687	South Dakota 1938	M. sylvestris X ioensis.		MdG
Bisquet	162766	France 1948			MdG
Bisquet	162766	Glenn Dale, Md.			MiG
Bitter Crab		AES Minn.	Resist. to some races of scab.		InL
Bitter Crab		Centr. Exp. Farm	English cider var.		MnS

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Bitterforest	160387	Yugoslavia 1947			MdG
Bitterforest	160388	Yugoslavia 1947			MdG
Black Crofton	242010	Tasmanica 1957			MdG
Black Crofton	242010	Glenn Dale, Md. 1960		70 AP-H-363	MoC WaP
Black Gilliflower		Cornell Univ. Ithaca, N. Y.	Fr. med.-lge., oval to conic. Skin yel. & dk. purplish-red ("Black"). Flesh sl. yel., firm, mod. juicy, mild sa., aromatic, dess. Season Oct.- Jan. or Feb. Tree lge. mod. vig.		NyG
Black Gilliflower		George A. Sweet Nur., Dansville, N. Y.	Med. size, oblong to conic., gray-purplish red; flavor poor.		OhW
Black Gilliflower					InL, PaU
Black Mickey		F. C. Rogers, Dansville, N.Y. 1930	McIntosh type, skin solid blush but not as deep as other McIntosh sports.		NyG
Black Mickey					NjB
Black Oxford	157052	East Lansing, Mich. 1937			MdG
Black Oxford	157052	Glenn Dale, Md.	Very dark red.	AP-H-250	NjB, OrC WaP
Black Oxford		D. Wilson Nur., Marshalltown, Ia. 1953	Fr. lge. (crab), rnd.-conic., cov. w. v. dk. red blush. Flesh yel.-cream, firm, sl. acid, fair. Late Oct.		NyG

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Black Oxford		Pittsfield, Me. H. L. Palmer 1944			OrC
Blanc Mollet	162719	France 1948			MdG
Blanc Mollet	162719	Glenn Dale, Md.	Cider apple		MIg, NjB
Blaze		AES, Urbana, Ill.	Brilliant red. Jonathan type, 3-4 weeks earlier.		ILU, NjB, WiM
Blaze		R. Meister, Am. Fr. Grower, Willoughby, Ohio	Collins X Fanny. Fr. med., rnd.-oblate, nearly cov. w. red, on yel., thin, tough, smooth, glossy. Flesh yel., crisp, firm, juicy, sa., good qual. 3 weeks. before Jonathan. Tree vig., prod.		NyG
Blenheim Orange		Orig. England before 1820-from Cornell Univ., Ithaca, N. Y. 1956	Fr. med.-lge., rnd.-oblate, sometimes sl. conic., reg. shape. Skin tough, yel w. red blush, often more dull. Usually sl. russet. Oct.-Dec. Good stor. Dess. and culin. Tree lge., vig.		NyG
Blue Pearmain		G. S. Cory, Canton, N. Y. 1910	Fr. med.-lge., rnd.-oblate, reg. shape. Red blush on yel. Flesh yel., mod. firm, juicy, sa., arom., good; high per- centage unmarketable fr. Home use only. Oct.-Mar. often later. Tree med.-lge., vig.		NyG
Blue Pearmain		Sherman Nurs. Co., Charles City, Ia.	Medium size apple.	A35228	WyC
Blue Pearmain		AES, Univ. Park, Pa.			NjB

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Blue Pearmain		W. W. Smith, N. Hampton 1939		B-32806	MdG
Blue Pearmain					PaU
Blush Calville	134578	Canada 1939			MdG
Blush Calville		Stephenson Bros., Manitoba, Canada	Fr. med. size. Early. Good yield.	A32786	WyC
Blush Calville		Cheyenne Hort. Sta., Cheyenne, Wyoming	Fr. med.-lge., gr.-yel. w. blush. Qual. med. Summer. Hardy. Blight severe.		NdM
Blush Calville Hyb. #2	141869	Canada 1941			MdG
Boche (#4234)	162549	France 1949			MdC
Bode		Dominion Exp. Sta., Canada	Medium to large fruit.	A523	WyC
Bodil Neergaard	104781	Sweden 1934			MdG
Boiken		J. L. Budd, Ames, Ia. 1889 German (Scandinavian var.)	Fr. med.-lge., unif., oblate, sl. conic, but uneven. Skin tough, waxy, pale yel. w. red blush. Flesh wh., firm, crisp, v. juicy, sa., fair to good qual. Dess. & culin. Nov.-May. stor. Tree mod. vig., rather dense, spreading.		NyG
Bonte Normand	123734	France 1937			MdG
Bonte Normand	123734	Glenn Dale, Md.			MiG
Boskill #1	144011	Canada 1942			MdG

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Boskill #3	144012	Canada 1942			MdG
Boskill #4	144013	Canada 1942			MdG
Boskoop	227721	Glenn Dale, Md.		AP-H-204 A57104	WaP WyC
Boskoop Rouge	224547	France 1955			MdG
Boskoop Rouge	224547	Glenn Dale, Md.		AP-H-205 A57100	WaP WyC OrC
Boswell Starking		AES, Blacksburg, Va.			NyG
Bottle Greening		H. D. Shnoeden, Bounton, N. Y. 1957	Fr. striped dull red on gr. Late Sept.		NyG
Bouteille	187296	France 1950			MdG
Bouteille de Liseux	161758	France 1948			MdG
Boutteville	162723	France 1948			MdG
Boutteville	162723	Glenn Dale, Md.			MdG
Bowden Seedling	194199	England 1951			MdG
Bowyer		Skinnners Nur., Manitoba, Canada	Cold hardy.		AkP
Bramley	238786	England 1957			MdG
Bramley	238786	Glenn Dale, Md.		AP-H-292 107	WaP WaW
Bramley's Seedling	107171	England 1933			MdG
Bramley's Seedling	231964	England 1956			MdG

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Bramley's Seedling	231964	Glenn Dale, Md.	Lge., blushed, culin. apple.	AP-H-290 106 68	NjB WaP WaW MoC
Bramtot	122600	Glenn Dale, Md.			MiG
Bramtot	158731	France 1947			MdG
Bramtot		H. P. Buhmer, Hereford, England 1933	Fr. sm., 1/3 cov. w. dirty orange blush. Rnd conic. Flesh creamy, sa., v. astr. V. poor qual.		NyG
Brand's Imperial		Summit Nurs., Stillwater, Minn.		A36416	WyC
Brand's Winter		Brand Peony Farm, Faribault, Minn.		A38581	WyC
Bravo de Esmolte	183958	Portugal 1949			MdG
Breakey	123906	Canada 1937			MdG
Breakey		O. H. Will & Co., Bismarck, N. Dak.	Fr. med. size, med. col., attrac. red stripe, crisp, juicy, fine texture, qual. v. good, sa., summer dess. Stor. to Jan. Blight light. Hardy.		NdM
Breakey		W. W. Row, Cando, North Dakota	Op. sdlg. of Blush Calville, Extra lge. blossoms. Med. size fr.	A38872	WyC
Brier Sweet		Cresco Nur., Cresco, Iowa	Siberian Crab X Bailey.	A31300	WyC

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Brilliant		Sherman Nur. Co., Charles City, Ia.	Sdly. of Fameuse.	A49105	MyC
Brilliant		Chevenne, Wyoming		11607	NdM
Bruce Seedling		AES, St. Paul, Minn.		A35632	MyC
Brunnsapple	102135	Sweden 1933.	Fr. med.-lge., lt. gr.-vel.to gr., red. blush on exposed side. Culin. & dess. Nov.-Jan.		MdG
Buckley Giant		Buckley Nur., Buckley, Wash.		AP-H-410	WaP
Budimka	131291	Yugoslavia 1939			MdG
Budimka	131291	Glenn Dale, Md.			NjB
Buell		Roseburg, Ore., C. E. Moyer - 1946			OrC
Bulmer's Norman	105278	Glenn Dale, Md.	Early summer. Cider apple.		NjB, MiG
Burgess Best		David Layer, Plains, Montana			NdM
Bushy Grove	135999	England 1940			MdG
Caillouett	161759	France 1948			MdG
California Sweet		R. W. Pattee	Fr. med., rnd.-conic., 100% dull stripe, lge. dots. Flesh yel.-creamy, firm, sweet. Fair qual. Early Oct.		MyG
Cal Trio		AES, College Station, S. D.	Mercer X Sweet Russet. Fr. 3/4", firm, juicy, acid, in clusters & ropes. Mid.-Sept.		SdC

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Calros	151253	Canada 1945			MdG
Calros		Boughen Nur., Manitoba, Canada	Sdlg. of Blush Calville. Med. size crab.	A49419	WYC
Calville Blanc	224548	Glenn Dale, Md.		A5794	WYC, OrC
Calville Blanc		Old French variety E. J. Gilber, Yakima, Wash. 1926	Fr. rnd.-oblong, skin clear, lt. yel., numerous wh. dots. Unattrac. Flesh yel., soft, juicy, med. sweet, arom., dess. Jan.-Feb. Tree med., vig., not quite hardy.		NvG
Calville Blanc		Geneva, N. Y.	Yellow fruit.		NjB
Calville du Mont Dore	162720	France 1948			MdG
Calville du Mont Dore	162720	Glenn Dale, Md.	Cider apple.		NjB
Camuzat	231939	England 1956			MdG
Canada Red					PaU
Canavial	183961	Portugal 1949			MdG
Cap of Liberty	161830	England 1948			MdG
Cap of Liberty	161830	Glenn Dale, Md.	Late summer. Cider apple.		NjB
Cap of Liberty		Res. Sta., Long Ashton, Bristol, England 1937	Fr. sm., conic., 1/4 cov. w. orange stripes on yel. Flesh lt.yel., acid, astr. Poor qual. Mid.-Sept.		NyG
Caramel		AES, Coll. Sta., S. D.	V. hardy & prod. Red crisp, juicy, fair qual. Bearing habit good, fr. hangs well after maturity.		SdC

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Caramel	127690	South Dakota 1938			MdG
Carapanon	244723	Spain 1958			MdG
Carbaugh #629		Arlington Farm, Va.		A30325	Wyc
Cardinal		Gurney Seed & Nurs., Yankton, S. Dak.			SdC
Cardinal		AES, Geneva, N. Y.			NyG
Carla	102540	Italy 1933			MdG
Carla	102413	Glenn Dale, Md. 1939	Fr. med.-lge., rnd.-conic., 1/3 cov. w. stripes. Flesh wh.-cream, firm, sa., fair qual. Mid.-Oct.		InL, NyC
Carlton		Orig. at AES, Geneva, N. Y. Introd. 1923	Montgomery X Red Astrachan. Fr. lge., rnd.-conic. Skin attrac., dk. red. Flesh wh., tender, juicy, sa., good. Ripens 1 mo. after Red Astrachan. Tree vig., annual bearer.	2391 A53124	NyG Wyc
Caroline Hopkins	226003	S. Africa 1956			MdG
Cartigny (#3231)	162710	France 1948			MdG
Cathay Crab		Russia	Fr. 1", yel w. orange blush Mid.-Sept. Inedible. Tree sm., flat-topped, willow-like brs., Winter hardy. Fair ornam. Blight resist., scab suscept.		SdC
Cathay Crab		Greening Nur. Co., Monroe, Mich.		A33634	Wyc

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Cazo Jaune	162061	France 1948			MdC
Centennial		Inter-State Nurs., Hamburg, Iowa			IoA
Centennial			Ornamental crab.		ILU
Cestra Belfler Kitaika	107204	Glenn Dale, Md.	Shows promise as hardy frame- work.Var. being indexed.		MeO*
Cestra Belfler Kitaika	107204	AES, Orono, Me.			NjB
Champion		W. E. Broome Nurs., Myton, Utah		A51124	WyC
Champion		Stark Bros. Nur., Louisiana, Mo.			WiS
Champlain		Orig. unknown. First noted 1871. R. C. Austerson, Kansas City, Mo. 1956	Fr. med.-lge. unif. size shape rnd., sl. conic. to oval. Skin gr.-yel. or pale yel., sometimes w. crim. blush. Flesh wh. or sl. yel., firm, juicy, sa. Good. Late Aug.-early Oct. Tree med.-lge., vig., open, sl. spreading.		NyG
Chance		AES, Coll. Sta., S.D.	Very hardy.		SdC
Chance	127691	South Dakota 1938			MdC
Charlamoff		Old Russian var. AES, St. Paul, Minn.	Good dess. qual. but breaks down rapidly. Aug. Tree hardy, med. vig.		NyG
Charlamoff		Jewell Nurs. Co., Lake City, Minn.	Oldenburg type. Fr. med.-lge, tendency to severe water core.	A32763	WyC

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Charlamoff		Cal Cooper, Pateros, Washington		AP-H-228	WaP
Charlamoff		AES, Orono, Me.			NjB
Charlamoff			Old Russian var. Fr. lt. red striping & splashing over lt. yel. Qual. v. good for season. Late Aug.		MnS
Charlamoff					PaU
Charles Crab	155426	Canada 1946			MdG
Charles Ross	203810	Ireland 1953			MdG
Charles Ross	245049	France 1958			MdG
Charles Ross	245049	Glenn Dale, Md.	Sdip. of Peasgood Nonsuch. High qual. fall apple.	12 AP-H-365	MoC WaP
Chataigne du Leman	137040	Switzerland 1940			MdG
Chataignier	136250	France 1940			MdG
Chautauqua		Orig. at AES, Geneva, N. Y. Introd. 1915	Esopus X Ben Davis. Fr. lge., rnd.-conic., almost cov. w. dull red stripes. Flesh creamy, firm, sa., good. Mid.-Oct.	122	NyG
Cheddar	199100	England			MdG
Cheddar	199100	Glenn Dale, Md.	Allington X Star of Devon. Fr. lge., conic. cov. w. crim. stripes. Attrac. Flesh lt. yel., soft, good flavor. Early fall dess. apple. Mid.-Aug. Good.	11	MoC NjB, NyG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Chenango		Amer. var. known since abt. 1850. Ellwanger & Barry, Rochester, N. Y. 1901	Fr. med.-lge., ovate or oblong conic. Skin yel. cov. w. red blush, dk. splashed, striped. Flesh wh., juicy, mild, sa., arom., good. Late stor. May-Sept.		NyG
Chenango		Field Sta., Hermiston, Ore. (Orig from Hort. Field Sta. Cheyenne, Wyo.)		AP-H-239	WaP
Chenango					MeE, IUU, PaU
Cherry Cox	247022	Glenn Dale, Md. 1960	More intensive col. than Cox Orange.		MeO, NyG
Cherry Pearmain	161831	England 1948			MdG
Cherry Pearmain	161831	Glenn Dale, Md.	Early summer. Cider apple.		NjB
Chestnut		Andrews Nur., Faribault, Minn.	Hardy tree.		AkP, NdF
Chestnut		Farmer Seed & Nur. Co., Faribault, Minn. 1956	Malinda op. sdlg. Lge. crab (2"), lt. red over yel. Good nut-like flavor. Mid.-Sept.-early Oct. Hardy. Blight resist. Prod.	17	VtB SdC
Chestnut		Fruit Breeding Farm, Excelsior, Minn.	Fr. firm, red streaked and blush over yel., irreg., russ., v. good eating.	AP-H-116	WaP MnS, NdM, NyG, OrC
Chestnut		Jewell Nurs., Lake City, Minn.		A48205	WvC

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Chestnut		AES, Ames Iowa			IoA
Chienchuan	55990	China 1922	A wild apple. Fr. little larger than a pea, glossy, brt. red on one side & yel. on the other. Tree 20 ft. high, stiff spread. brs. Found in dry, hot, rocky location.		MdG
Chilko	128402	M. D. Davis, Ontario, Canada		A38675	WvC
Chilko	155452	Canada 1946			MdG
Chilko		Glenorchie Farm, Manitoba, Canada		A36755	WvC
Chinese Shapanren	107206	AES, Orono, Me.			NjB
Chisel Jersey	161833	England 1948			MdG
Cimetiere	148361	Glenn Dale, Md.	Small green fruit.		MiG, N ¹ B, NyG
Circassian	102639	Russia 1933	A semi-wild var. of except. vig. & productive.		MdG
Clark Dwarf			Dwf. stock for apple.		IoA, N ¹ B
Clark's Flowering Crab	212643	Chico, Calif. 1933			MdG
Clark's Flowering Crab				319503	MdG
Clark Seedling (Delt)		Clark Orchard, Wapato, Washington		AP-11-341	WaP
Claudius Herbstapfel	131001	Germany 1938			MdG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Clear Heart	206022	Ireland 1953			MdG
Clear Heart	206022	Glenn Dale, Md.		109	WaW MeO, InL, NyG
Climax					PaU
Clinton			Ornam. crab.		ILU
Close					PaU, OkS, SdC, NjB
Close		USDA, Beltsville, Md. 1928	Fr. med.-lge., red stripes on cr.-yel. Good qual. dess. & cook. Early Aug.		NyG, OhW, MiG
Close		AES, Geneva, N. Y. 1953			OrC
Clozette	162712	France 1948			MdG
Cockle		M. Sharpe, Vacanville, Calif. 1939	Fr. med.-lge. Gr. yel., some russet. Flesh wh.-cream, sl. acid. Good. Mid. Oct.		NyG
Coffman		Fruitland Nurs., Augusta, Ga.		A4858	WyC
Coimbra	183956	Portugal 1949			MdG
Cole	129820	Australia 1938			MdG
Col. Vaughan	141236	England 1941			MdG
Collins		Westminister Nurs., Westminister, Md.		A37196	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Colora			Bud mut. of York Imp.		PaU
Colora		Bountiful Ridge Nurs., Princess Anne, Md. 1936	Fr. brt. red. without stripe uniformly over entire tree. Tree ident. York Imperial.		NyG, OhW
Columbia Crab		Bill Balser, St. Paul, Minn.		AP-H-263	MaP
Columbia Crab			Siberian Crab X Broad Gr. 25/lb.; orange red oblong; tart; jelly crab; consistent high yield. Blight resist.; hardy rootstock or trunk interstock.		NdM
Columbia Crab		Manitoba, Canada			NdF, WyC
Columbia Crab					PaU
Columbia Crab	155461	Minnesota 1946			MdC
Concord		Fr. Exp. Sta., Mountain Grove, Mo.	Ben Davis X Jonathan. Fr. lge., well col., good qual., tart flavor, ripens abt. 1 wk. after Jonathan.	W456	MnS NyG, NjB, MiG
Connell Red		Farmers Seed & Nurs. Co., Faribault, Minn.	Red sport of Fireside. V. lge., of excel. dess. qual. Skin col. red, stores well until Apr. or May. V. hardy.		NdM
Connell Red		Summit Nurs., Stillwater, Minn		AP-H-159	NyG, MaP
Connell Red		Connell, Schneider & Connell, Menominee, Wisconsin.			MiG, Wis

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Connell Red		Kelly Bros., Danville, N. Y.			PaU
Connell Red		Gurney Seed & Nur. Co., Yankton, S. D.			SdC
Connell Red		Mt. Arbor Nurs., Shenandoah, Ia. 1961		29	MoC
Connell Red		Rich & Sons Nurs. 1956			OrC
Connell Red					MnS
Cooper's Early					KaM
Cooper's Early		Willis Nurs. Co., Ottawa, Kansas		A48130	WvC
Cooper's Seedling	157215	England 1947			MaG
Cornish Gilliflower		Old English var., ca. 1800 R. M. Farley, 29 Perry Pl., N. Y. 1948	Fr. rnd.-oval. pr.-yel., streaked w. dull red. Russet markings. Flesh firm, yel. sweet, rich. Late dess. Dec.- Jan. No value.		NyG
Cortland		Orig. at AES, Geneva, N. Y. 1915	Ben Davis X McIntosh. Fr. med.- lge., red w. dk. stripes; skin smooth, thin; flesh wh., non- browning. Good qual. Later than McI. Long stor. life. Incompatible w. Early McI.	79	NyC
Cortland		AES, Geneva, N. Y.		AP-H-382	WaP OrC, Wis, MiG, MIE

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Cortland		Bountiful Ridge Nurs., Princess Anne, Md.		28	MoC, OhW
Cortland		AES, Ames, Iowa			IoA
Cortland		Loveland Nur. & Orcn., Loveland, Colorado		A32206	WyC
Cortland		Stark Bros. Nurs., Louisiana, Mo.		A5185	WyC
Cortland		AES, Durham, N. H.	Indexed for stem pitting virus.		MeO*
Cortland			Two yrs. neg. on R12740-7A. Not hardy at Mandan.		NjB, MeO, CnS, SdC, PaU, IUU, NdM, InL*
				164	VtB
Coulon Reinette	89799	Poland 1930			MdG
Coulon Reinette	89799	Glenn Dale, Md. 1939	Fr. sm.-lge., rnd. oval, gr. w. trace dull orange blush. Flesh creamy, sa., fair qual. End of Sept.		NyG
Court Pendu Plat	123960	England 1937			MdG
Cowichan	162975	Canada 1948			MdG
Cowichan	162975	Glenn Dale, Md.			NjB
Cowichan	128403	M. B. Davis, Ottawa, Ontario, Canada		A38676	WyC
Cowichan Crab	155453	Canada 1946			MdG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Cox's Orange	247024	Denmark 1958			MdG
Cox's Orange		AES, Geneva, N. Y.			ILU
Cox's Orange		Stark Bros. Nurs., Louisiana, Mo.	Riston sdls. Fr. med., oblate, Gr.-vel., flavor-good.		OhW
Cox's Orange		Summerland Res. Sta., Summerland, B. C.		AP-H-120	WaP
Cox's Orange					PaU
Cox's Orange	247021	Denmark 1958			MdG
Cox's Orange	247023	Denmark 1958			MdG
Cox's Orange		1958	V. good qual. Tends to russet.	107	NjB VtB
Cox's Orange		England 1830 R. G. Chase & Co., Geneva, N. Y. 1911	Fr. med.-lge. Uniform shape & size. Sl. oblate or rnd. Skin tough, vel. w. orange blush, splashed w. crimson. Flesh vel. Firm, crisp, tender, v. juicy, rich, v. arom. V. good to excel. Oct.-late Jan. Tree med. size, mod. vig. Not hardy.		NyG
Cox's Orange	203811	Ireland 1953			MdG
Cox's Orange	203811	Glenn Dale		AP-H-251	InL, MeO WaP
Cox's Orange	238787	England 1957			MdG

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Cox's Orange	233787	Glenn Dale, Md.	High qual., winter apple Yel. w. red blush. Use as fr. virus indicator. No stem pitting virus.	8	MoC, MoP*
<u>Cox's Orange Sports</u>					
Blangsted	247021	Glenn Dale, Md. 1960	Not fruited to date.		MoC
Cherry Cox	247022	Denmark 1958	Red colored sport of Cox's Orange.		MoC
Cherry Cox	247022	Glenn Dale, Md.		74 AP-H-370	MoC MoP
Crimson	123723	England 1937			MoC
Greenmeadows	256108	New Zealand 1959			MoC
Greby Strain	254357	Denmark 1958			MoC
Pomona	102138	Sweden 1933 Orig. England	Skin white to yel.-white, red striping. Flesh tender, culin. & dess. Sept.-Jan.		MoC
Red	112062	New Zealand 1935			MoC
Cranberry		R. L. Wodarz, Wyndmere, N. D. 1960	Dolgo sdlg. Pollen parent unknown. Sm., v. sim. to Dolgo. V. attrac. dk. red. Red flesh, makes attrac. jelly. Tree hardy, flowers attrac. dk. pink. Blight resist.		MoC, MoF, MoM
Cranberry Pippin	143172	Canada 1941			MoC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Crandall (Ill. 1)		AES, Urbana, Ill.	Rome Beauty X Jonathan Cross 1914, Sel. 1925. Fr. med. size, attrac. red; flesh crisp, juicy dess. & culin. fair - good qual. Long stor. Tree early bearing, annual, prod., fair disease resist.		KaM, IUU, WiM, OrC, OhW, NyG
Crandall		AES, Geneva, N. Y.,		AP-H-376	McC WaP
Crandall		Bountiful Ridge Nurs., Princess Anne, Md.		A5742	WyC
Crandall		Maloney Nurs., Danville, N. Y.			MiG
Crandall			2 yrs. neg. on R12740-7A.	168	InL*, PaU, WiS VtB
Cravert	131102	France 1938			MdG
Cravert Rouge	231940	England 1956			MdG
Cravert Rouge	187348	France 1950			MdG
Crawley Beauty					PaU
Crawley Reinette	157728	England 1947			MdG
Cremiere	123735	France 1937			MdG
Creswell		1943			OrC

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Crimson Beauty		Stark Bros. Nurs., Louisiana, Mo.	Fr. med., rnd.-oblate, red stripe. Flesh wh., firm, crisp, tart-sa., dess. culin., early, poor keeper. Lt. blight.	A33157	WvC
Crimson Beauty	143173	Canada 1941			MdC
Crimson Beauty		Bountiful Ridge Nur., Princess Anne, Md.			OhW
Crimson Beauty		Van Well Nur., Wenatchee, Wash.		AP-H-298	WvP
Crimson Beauty					WvB
Crimson Beauty		AES, Geneva, N. Y.			SdC
Crimson Beauty		P. J. Shaw, Nova Scotia, Canada 1912			WvC
Crimson Beauty		Dominion Exp. Sta., Morden, Manitoba			MdW
Crimson Bramley	113703	England 1936	Fr. lge. attrac. crim. on sunny side, described as excel. culin & stor.		MdS
Crimson Gold		Calif. Nurs., Wiles, Calif.	Med.-sm. conic, 100% stripes. Flesh lt. vel, firm, v. acid, not astr., poor qual. Late Oct.	A48101	WvC WvC, OhW
Crimson King	158618	England 1947			MdC
Crofton	199685	Glenn Dale, Md. 1956	Fr. sm., rnd.-oblate, striped. Flesh pr.-cream, sl. acid, poor qual., early Nov.		WvC

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Crollon	162721	France 1948			MdG
Crollon	162721	Glenn Dale, Md.	Cider apple.		NjB
Crow Egg	199686		Fr. med., rnd.-oblong. Skin tough, brt. pale yel. or gr.-yel., sometimes w. brown blush. Flesh wh., crisp, juicy, sweet. Good-v. good. Oct.-Nov. Tree mod. vig. Old var. without value.		NyG
Cummings		A. M. Goodner, Brandon, Va. 1942	Fr. lge, 1/2 striped. Flesh med. firm, cream, sa., v. good.		NyG
Currie		Centr. Exp. Farm, Ottawa, Canada	Fr. med.-lge., rnd. conic, 100% splashed blush. Flesh yel.-cream, sa., soft. Good dess. Mid.-Sept. Stor. to Jan. Lt. blight.		NyG
Currie		Dominion Exp. Farms, Morden, Manitoba		9513	NdM
Cusset	187349	Glenn Dale, Md.	Yel. Wooly resist., late blooming.		NjB
Custer		Will's Nursery, Bismarck, N. D.	Red Siberian X Wealthy 8/1b., lt. red stripe, oblate, crisp, juicy, tart-sweet, excel. flavor. Severe blight. V. hardy.	A56415	SdC, NdM NyC
Custer		N. Great Plains Field Sta., Mandan, N. D.		N5290	MnS
Dabinett	150648	England 1945			MdG
Dabinett	150648	Glenn Dale, Md.	Cider apple.		NjB, MiG

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Dabinett		Glenn Dale, Md. 1948	Sm. fr., 100% striped, flesh cream, v. astr. Poor qual. Early Oct.		NyG
Damelot	162722	France 1948			MdG
Dandrv	133514	Australia 1939			MdG
Daniels		Stark Bros. Nur., Louisiana, Mo.			MiG, NyG
Dartmouth Crab		Arn. Arb. 1940		3-35630	MdG
Dartt's Hybrid #1		Rohan Nursery, Omaha, Nebr.	Sdlg. of Tetofsky. Lge. crab. Vig. tree.	A31235	WyC
Daru		AES, Columbia, Mo. 1953. (Hungary 1900)	Red striped, culin. V. late flowering, 2 wks. after Rome Beauty.	18	MoC
Dauphin	144017	Canada 1942			MdG
Dauphin		Summit Nurseries, Stillwater, Minn.	Unknown crab sdlg. Fr. lge. Tree v. hardy.	A41124	WyC
Davey		AES, Amherst, Mass. 1936	McIntosh X open. Fr. rather small oblate, high color. Flesh gr., sa., good. Late Sept.		NyG, CnS
Davey		AES, Geneva, N. Y.			ILU
Davey			Pos. on R12740-7A.		INL*

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Davey		Kelly Bros. Nurs., Dansville, N. Y.	Op. Md. sdlg. Fr. med., oblate-oblong, vel.-lt. red. Flavor fair-good.	906 148 A53121	OrC, PaU, OhW MeO, VtB WvC
Dawn - Crab			Fr. 26/lb., orange-red, oblate, firm, tart. Blight resist., hardy. Mid. Sept.		NdM
Deacon Jones		Sdlg. found in Pa. before 1890. J. S. Ford Pittsford, N. Y. 1892	Fr. lge., uniform size, variable shape-conic to oblong conic. Skin thick, vel., cov. w. diff. shades of carmine. Flesh wh., mod. juicy, mild, sa., fair qual. Tree mod. vig. Nov.-Mar. or April.		NyG
Dee Bee		House of Gurney, Yankton, S. D.		A33274	WvC
De Flandres	127358	France 1938			MdG
De Jaune	125560	France 1937			MdG
De Jaune	125560	Glenn Dale, Md.	Fr. med., rnd.-oblate, lt. gr. Flesh nearly wh., firm, sl. astr. High vitamin C. Poor qual. Late Oct.		NyG, NjB
De Jaune	231941	England 1956			MdG
De Jaune	231941				PaU
Dekkers Glorie	188515	Netherlands 1950			MdG
Delawine		G. Rose, Shenandoah, Iowa, 1943	Fr. long conic, 100% stripes. Flesh firm, cream, sa., sl. astr., fair. Early Oct.		NyG

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Delawine			Dwarf. 2 yrs. neg. on R12740-7A.	AP-H-11	WaP InL*, CnS
Delawine		Henry Field Nurs., Shenandoah, Iowa		A48294	WvC ILU
Delawine		AES, Ames, Iowa			IoA
Del Cirio	105505	Spain 1934			McG
Delcon		Henry Field Nurs., Shenandoah, Iowa			ILU
Delcon		Inter-State Nurs., Hamburg, Iowa			IoA
Delcon		Fruit Exp. Sta., Mt. Grove, Mo. Introd. 1948	Conrad X Delicious (sel. 1929). Fr. good flavor, most nearly resembles Delicious. Tree dwf. tendency; heavy prod., suitable for home orch.	AP-H-90 M-755	KaM, WiM, OrC WaP WaM
Delcon		Gurney Seed & Nurs., Yankton, S. D.	Conrad X Delicious. Dwf tree, v. precocious, heavy bearing.		NdM, SdC
Delcon		G. Rose, Shenandoah, Iowa, 1949	Conrad X Delicious. Fr. med. size, conic., almost entirely striped. Flesh cream, sa., fair. Late Sept.	A5152	NyC WvC
Delcon			2 yrs. neg. on R12740-7A.		InL*, PaU
Delcon		Earl May Seed Co., Shenandoah, Iowa	Conrad X Delicious. Not yet fruited.		CaW
Delicious					NjB, ILU, PaU, MIE

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Delicious		Stark Bros. Nurs., Louisiana, Mo. 1908	Fr. med. to lge., conic. oblong. Skin v. thick, gr. cov. w. red stripes. Flesh yel., firm, juicy. Stor. Dec.- Mar. Qual. good. Tree upright, tall, strong brs. V. dk. lvs.		NyG
Delicious		Plumfield Nursery, Fremont, Nebr.		A4926	WyC
Delicious		Des Moines, Iowa Milton Nurs. 1941			OrC
Delicious		Loveland Nurs., Loveland, Colo.		A33514	WyC
Delicious		Hood River, Ore. Br. Exp. Sta. 1941			OrC
Delicious		Bountiful Ridge Nurs., Princess Anne, Md.	Sdlg., fr. med.-lge., shape, oblong to conic. Col. gr.-red Flavor, v. good, sweetish.		OhW
<u>Delicious Sports</u>					
Adams Red		Leslie Adams Orchard, Hood River, Ore.	Limb sport on 40-yr. old.	AP-H-335	WaP
Anson		Frank Anson, Albion, N. Y. 1961	Not fruited to date.		NyG
Atwood Red #2		Charles Atwood Orchard, Wenatchee, Wash.		AP-H-331	WaP
Atwood Red #3		Charles Atwood Orchard, Wenatchee, Wash.		AP-H-332	WaP

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<u>Delicious Sports</u>					
August Red					KaM
Barrett		Howard Barrett, Rexford, N. Y. 1955	Delicious type, color earlier, and dkr.		NyG
Barrett Red		Lester Barrett, Yakima, Washington		AP-H-277	WaP
Batjer		AES, Wenatchee, Wash. 1949	Fr. striped, dk. than reg. Delicious.		NyG
Bergenholtz Red		Irvin Bergenholtz, Methow, Wash.		AP-H-220	WaP
Bisbee Red		Roy Bisbee, Hood River, Ore. 1957			OrC
Bridgham		N. Y. Fr. Test Assoc., Geneva, N. Y.	Red Delicious.		MiG
Bridgham Red		Summerland Res. Sta., Summerland, B. C.	Limb sport or tree at Lakeside, Wash.	AP-H-327	WaP
Bridgham Red		AES, Geneva, N. Y.			OrC, PaU, IUU
Brilliant Red					KaM
Boyce #1		Arthur West, Albion, N. Y. 1958	Not fruited to date.		NyG
Buckles Spurred		W. A. Buckles, Tieton, Wash.		AP-H-338	WaP

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<u>Delicious Sports</u>					
Chelan Red		J. D. Hamilton, Chelan, Washington	Not fruited at Ohio.	AP-H-31 M-728	WaP WaM* OhW
Childs Red		LeRoy Childs, Hood River, Ore.		AP-H-210	WaP OrC
Chowen Red		Amos H. Chowen, Manson, Wash.		AP-H-396	WaP
Clarkrich		Edwar S. Clarke Orch., Peshastin, Wash.	Limb sport on Starking.	AP-H-237	WaP
Clarkrich		Rich & Sons Nurs., Hillsboro, Ore.	Delicious type. Colors earlier & dkr. than Starking.		NyC
Clawsons Spurred Red		O. T. Clawson, Lakeside, Wash.	Sprout from winter-injured Starking trunk.	AP-H-176	WaP
C & O 29		F. N. Hewetson, Arendtsville, Pa.			PaU
Cruikshank Spurred Red		Dew Cruikshank, Methow, Wash.		AP-H-303	WaP
Crowder Red		Melvin P. Crowder, Manson, Wash.		AP-H-139	WaP
Dieterich Red		Lou Dieterich Orch., California		AP-H-401	WaP
Donnelly Spurred		Edwin T. Donnelly, Orch, Tieton, Wash.		AP-H-301	WaP
Double Red			Not fruited to date.		MeO

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<u>Delicious Sports</u>					
Double Red		W. E. Broom Nurs., Myton, Utah	Apple sim. to Delicious except for added color.	A51126	WyC
Double Red		Hill Top Orchs. & Nurs., Hartford, Mich.		N5736	MnS
Double Red Improved					PaU
Duncan Red		H. R. Duncan, Pateros, Wash.	Limb sport on Starking.	AP-H-74	WaP
Dwarf		W. E. Broome Nur. Myton, Utah		A51125	WyC
Earlired		Heath Nur., Pateros, Wash.	Bud mut. of Stark. Delicious type. Colors early & dkr. than Starking. Striped.	AP-H-51 M-739	PaU, NyG, InL WaP WaM
Earlired Rich		Guy Scacco Orch., Loomis, Wash.		AP-H-221	WaP
Easter		1943			OrC
Ervin Spurred Red		Don J. Ervin Orch., Pateros, Wash.		AP-H-295	WaP
Evarts					InL
Evarts		Greening Nur., Monroe, Michigan	Red Delicious.		MiG
Evarts Red		R. L. Klackle, Lafayette, Ind.		AP-H-84	WaP

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<u>Delicious Sports</u>					
Excells		Heath Nur., Pateros, Wash.	Delic. type, colors earlier & dkr. than Starking Stripe type.		NyG
Excells Red		Nickell Bros. Orch., Pateros, Wash.		AP-H-38	WaP
Frank Red		Frank Rypczynski, Hood River, Ore.	Limb sport on 7-yr. old Starking.	AP-H-356	WaP
Fruitland Red Spur		Garnefix Nur., Fruitland, Idaho 1958			OrC
Gardner		AES, Geneva, N. Y.			PaU
Gardner		Gardner, Yakima, Wash. 1933	Delicious type, lt. red color, solid or blush.		NyG
Gardner Red		N. Y. Fr. Test. Assoc., Geneva, N. Y.		AP-H-380	WaP
Gibbons Red		Carl E. Gibbons Orch., Okanogan	Limb sport on Starking.	AP-H-217	WaP
Glen Wood Red		Glen Woods, Lake Chelan Nurs., Manson, Wash.		AP-397	WaP
Glenn Red		Roger F. Williams, Yakima, Wash.		AP-H-190	WaP
Glovier		Mont Glovier, Valle Cruces, N. C. 1944	Ident. w. Delic. except more col. 90% red, dull bloom, not as good as Vance Delic.		NyG

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<u>Delicious Sports</u>					
Golden		Stark Bros. Nurs., Louisiana, Mo.	Fr. med.-lge., oval, conic. Skin yel. w. wh. dots, spotted & sl. striped w. russet. Flesh cream.	40 AP-H-71 M-746 A5183	NyG, IUU, WiS, OhW MoC WaP WaM* MyC
Golden		Maine	No stem pitting.		MeO*
Golden		Milton Nursery, N. Y. 1941			OrC
Golden		West Virginia 1943			OrC
Golden		Clarence Schell, Cashmere, Wash.		AP-H-27 M-725	WaP WaM*
Golden		Mr. McClellan, Okanogan, Wash.		AP-H-264	WaP
Golden					NjB, PaU, SdC, CnS, MiE, OkS
Grady Golden		Stark Bros. Nurs., Louisiana, Mo. 1949	Reportedly giant type of Golden Delic. but ident.w. Golden Delic.		NyG
Griffith Spurred Golden		Newt Griffith Orch., Manson, Wash.	Limb sport on 5-yr. tree.	AP-H-334	WaP
Hapke Red		Summerland Res. Sta., Summerland, B. C.		AP-H-325	WaP

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<u>Delicious Sports</u>					
Hardeman		R. Hardemann, Van Voorkes Farm, Red Bank, N. Y. 1955	Delic. type, earlier & dkr. color than Delic.		NyG
Harrold		Summerland Sta., Summerland, B.C. 1960	Delic. type, col. earlier & dkr. than Starking. Def. stripes.		NyG
Harrolds Red		Wayne Harrold Orch., Zillah, Wash.	Limb sport on 12-yr. Starking.	AP-H-179	WaP
Hartskamp Red		Summerland Res. Sta., Summerland, B.C.		AP-H-324	WaP
Heisey		S.A. Heisey & Son			PaU
Hi-Early		Heath Nurs., Pateros, Wash.	Delic. type, col. earlier and dkr. than Starking Stripe type.	152	NyG, MiG VtB
Hi-Early		Univ. Expt'l. Farm, Kearneysville, W. Va.			NjB
Hi-Early					PaU, InL
Hi-Early Red		George W. Neff Orch., Pateros, Wash.		AP-H-141	WaP
Hi-Early Red		Heaths Nurs., Pateros, Wash.	Starking sport. Has not fruited at Ohio.		OnW
Hi-Red		F. N. Hewetson, Arendtsville, Pa.			PaU
Hi-Red			Pos. on R12740-7A.		InL*

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<u>Delicious Sports</u>					
Hi-Red		Heath Nurs., Pateros, Wash. 1958	Striped type, dk. red or Topred Delic.		NyG
Hi-Red		Morrison Nur., Zillab, Wash.			MIg, OrC
Hi-Red		AES, Kearneysville, W. Va.	Bud mut. of Starking Del.		NjB
Hole Red		William Hole, Methow, Wash.		AP-H-266	WaP
Houser					InL
Houser Red		Lawrence E. Houser	Limb sport on mature Starking.	AP-H-170	WaP
Hubbs Red		Olin Hubbs, Milton- Freewater, Ore.		AP-H-145	WaP
Hubener Red		T. Hubener Orch., Kelowna, B. C. (thru Summerland Res. Sta.)		AP-H-323	WaP
Hutchins Red		Monard Hutchins, Tonasket, Wash.		AP-H-226	WaP
Hyb		Plumfield Nurs., Fremont, Nebr.		A57112	WyC
Imperial		Elen Gilbert, Yakima, Washington. 1959	Colors earlier than Delic. Most resembles Royal Red Delic.		NyG
Imperial					InL

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<u>Delicious Sports</u>					
Imperial Double Red		Elton Gilbert Orch., Parker, Wash.		AP-H-181	WaP
Imperial Red		Yakima, Wash. May Nur. Co.	Fr. most nearly resembles Royal Red Delic.		KaM
Imperial Red		May Nur. Co. 1958			OrC
Improved All Red		Tualatin Valley Nurs., Sherwood, Ore.	Red Delic.		MiG
Jardine		Stark Bros. Nurs., Louisiana, Mo.			PaU
Jardine Red		Summerland Res. Sta., Summerland, B. C.		AF-H-318	WaP
July		Jack L. Turner, Auburn, Alabama		AP-H-407	WaP
Kernan Red		James C. Kernan, Sr., Spectacle Lake Orch., Loomis, Wash.		AP-H-271	WaP
Kirby		Ilgenfritz Nur., Monroe, Michigan	Red Delic.		PaU, MiG, InL
Kirby Red		R. L. Klackle, Lafayette, Indiana		AP-H-85	WaP
Kirby Red		Ilgenfritz Nursery, Monroe, Mich		AP-H-186	WaP
Klix Red		H. R. Klix Orch., West Summerland, B. C. (via Summerland Res. Sta.)		AP-H-322	WaP

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<u>Delicious Sports</u>					
Lalla		Oscar Nobelins, Nowe Warren, Victoria, Australia 1929	Delicious type, early red col., striped.		NyG
Lalla		AES, Geneva, N. Y.	Red striped,	N5924	PaU MnS
Lalla Red		N. Y. Fr. Test. Assoc., Geneva, N. Y.		AP-H-381	WaP
Leonard Wood Spurred Red		Leonard Wood, Bear Creek, Winthrop, Wash.		AP-H-273	WaP
Levering			A highly colored blush type w. typical "spur" habit of growth.		VaB
Lonely					InL
McDonald Spurred Red		Frank McDonald, West Summerland, B. C. (via Summerland Res. Sta.)		AP-H-319 AP-H-320	WaP WaP
Maehara Red		Summerland, B. C. (Res. Sta.)		AP-H-321	WaP
Marr Spurred		Alvin Marr, Entiat, Wash.		AP-H-218	WaP
Morgan Spurred Red		Mr. Morgan, Twisp, Wash.		AP-H-265	WaP
Mor-Red		Moreland Orch., Fruitland, Idaho		AP-H-354	WaP

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<u>Delicious Sports</u>					
Morspur Red		Charles Morrison, Zillah, Wash.		AP-H-333	WaP
Morspur Red #2		Charles Morrison, Zillah, Wash.		AF-H-402	WaP
Myrtle		Henry Miller, Paw Paw, W. Va. 1957	Not fruited to date.		NyG
Newton		Jim Skinner, White Salmon, Wash.		AP-H-97	WaP
Okanoma		Heuser Nur., Hartford, Mich.	Red Delic.		MiG
Okanoma		AES, Wenatchee, Wash. 1949	Delic. type, col. earlier & dkr. than Delic. Mostly solid col. sometimes stripes.		NyG
Okanoma		Garrett Nur., Okanogan, Wash.		AP-H-39 M-733	WaP WaM
Okanoma		Orig. in Omak., Wash. Known in Okanogan-Omak area for the past 25 yrs. Okanogan Nur.	Skin solid blush, staying brt. red rather than turn- ing dk. maroon. Most nearly resembles Richared. Tree semi- standard, bears heavily, claimed more self fruitful than other Red Delic. strains.		KaM
Okanoma Red		Mt. Arbor Nurs., Shenandoah, Iowa 1957	Spur fruiting fall apple.	39	MoC
Parrish		Greening Nur., Monroe, Mich.			MiG

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<u>Delicious Sports</u>					
Paynter Spurred Red		Summerland Res. Sta., Summerland, B. C.	Starking Del. type, color comparable to Okanoma. Fr. striping. Tree spur type.	AP-H-326	WaP NyG
Pittman		Rodgers Hamilton, Okanogan, Wash.		AP-H-55	WaP
Purdue #1 Starking		AES, Lafayette, Ind. 1956	Orch. sel. Starking. Free from stem-splitting factor, does not transmit.	15	MoC
Red		Poy Bisbee, Hood River, Oregon		AP-H-268	WaP
Red					WiS, CnS
Red		Manten's Nur., White Rock, B. C., 1953		144	VtB
Red		Kelly Bros. Nur., Inc. Dansville, N. Y. 1952		146	VtB
Red			Chance sdlg. Fr. med.-lge., med. red; flesh crisp, juicy. Tree upright, spreading, vig., lge. v. susc. to scab. Resist. to bitter rot, fire blight.		KaM
Red		Kents Hill, Maine	No stem pitting virus.		MeO*
Red		Stark's Nur., Louisiana, Mo.			MeC

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<u>Delicious Sports</u>					
Red King		Van Well Nurs., Wenatchee, Wash.	Red Delicious type, colors earlier & dkr. than Starking. Prominent stripes.	154 1411 52	VtB OrC, NyG, MiG MeO OhW MoC
Red King		AES, Kearneysville, W. Va.			NjB
Red King		E. D. Smith & Son, Winona, Canada	A redder King apple.		OhW
Red King		Riverside Orch., Riverside, Wash.		AP-H-41 M-734	WaP WaM
Red King			Fr. colors early; most nearly resembles Starking.		KaM, PaU, InL, OKS
Red Prince		Henry Miller, Paw Paw, W. Va. 1957	Delic. type; early brt. red, blush or solid type.	AP-H-164	WaP NyC
Red Queen		Henry Miller, Paw Paw, W. Va.	Delic. type, colors earlier & dkr. than Starking. Stripe type.	AP-H-163	NyG, PaU WaP
Redspur		C. & O. Nur. Co., Wenatchee, Wash.	Delic. type, early brt. red blush or solid type.		NjB, IUU, NyG MiG
Redspur		Elton J. Gilbert, Parker, Wash.		AP-H-180	WaP
Redspur					OKS

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<u>Delicious Sports</u>					
Red Wenatchee		Peshastin, Wash. 1956	Mostly blush, somewhat dk., v. sim. to Royal Red Del.		NyG
Redwin		J. L. Johnson, Peshastin, Wash.	Limb sport on a Delicious.	AP-H-89	WaP
Redwin		E. D. Smith & Son., Winona, Canada			OhW
Redwin		Tualatin Nur., Oregon 1948			OrC
Reinecke		San Diego, Calif., John Reinecke 1947			OrC
Richard Early					KaM
Richared		Azwell Orch., Azwell, Wash.	Green Sport Reversion.	AP-H-219	WaP
Richared		Bountiful Ridge Nur., Princess Anne, Md.	Delic. bud sport. A redder Delic.		OhW, ILU
Richared		C & O Nur. Co., Wenatchee, Wash.	Delic. type, col. earlier & dkr. than Delic. Blush or solid type.		NyG, MiG
Richared					MeO, OkS, N1B WiS, InL
Richared		Milton Nursery 1941			OrC
Richared		P. S. U. Orchards			PaU

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<u>Delicious Sports</u>					
Richared		Washington Nur. Co., Toppenesh, Wash.	Bud mutation of Delic.	A341291	Wyc
Richared		Wallace Orch., Monitor, Wash.		AP-H-19 M-718	WaP WaM
Richard Red					CnS
Royal Red		C & O Nur., Wenatchee, Wash.	Delic. type, col. earlier & dkr. than Richard, mostly blush, faint striping may occur.	153 53 AP-H-18 M-717	VtB NyC, KaM, MeO MiG MoC WaP WaM OhW
Royal Red		P. S. U. Orchards			PaU
Royal Red		Calif. Oranagon, Wash. 1953	A redder Delicious.		OrC
Royal Red			Pos. on R12740-7A.		InL*, Cns, OkS
Rudd Red		Herbert Rudd, Tieton, Wash.		AP-H-106	WaP
Royal Stewart Spur		Stewart Bros. Nur., Ltd., Kelowna, B. C.	Limb sport of 32-yr. old tree.	AP-H-393	WaP
Ryan Red					InL
Ryan Red		James B. Ryan, Wapato, Wash.	Limb sport on a Starking.	AP-H-168	WaP
Ryan Red		Morrison & Sons, Zillah, Wash.			H4B

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<u>Delicious Sports</u>					
Rypczynski		Stark Bros. Nur., Louisiana, Mo.			PaU
Sali Spurred Red		Repina Sali Orch., Yakima, Wash.		AP-H-299	WaP
Sergeant		Douglas Sergeant, Sodus, N. Y. 1961			NyG
Shotwell		C. & O. Nur., Wenatchee, Wash.	Solid col. Red Delicious.	54	MoC NyC
Shotwell		P. S. U. Orchard			PaU
Shotwell		Shotwell Nur., Wenatchee, Wash.		AP-H-23 M-722	WaP WaM
Shotwell		Bunting's Nur., Selbyville, Delaware			WiG
Shotwell			Pos. on R12740-7A.		InL ⁸ , WiS
Shotwell		AES, Hood River, Ore. 1941			OrC
Simpson Giant		Simpson Nur. Co., Vincennes, Ind.	Giant fr. Not tetraploid. Seems to breed true for lge. fr.		ILU
Solid Red		Inter-State Nur., Hamburg, Iowa			WiC
Standard		Wallace Orch., Monitor, Wash.		AP-H-20 M-719	WaP WaM

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<u>Delicious Sports</u>					
Staples		George Staples, Wenatchee, Wash.		AP-H-100	WaP
Starking					ChS, WJB, WIS, OkS
Starking		Stark Bros. Nur., Louisiana, Mo.	Delic. type, col. earlier & dkr. than Delic.	45 A341262 AP-H-64 M-743	NYC, OhW, ILU, MiG MoC WVC WaP WaM
Starking		P.S.U. Orch.			PaU
Starking		N. J. by Lewis Mood	Introd. comm. 1924. Resembles Delic. except more col; perhaps better keeping qual.		KaM
Starking			Somewhat more susc. to cold injury than Richared.		MeO
Starking		D. F. Millikan, Columbia, Mo.		AP-H-160 M-774	WaP WaM
Starking			Pos. on R12740-7A.		InL*
Starking Double Red		Milton Nur., Monroeville, N.J.			OrC
Starkrimson		Stark Bros. Nur., Louisiana, Mo.	Delic. type, col. earlier & dkr. than Starking. Blush or solid type. Spur-bearing.	79 151	NYC, PaU MoC VtB

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<u>Delicious Sports</u>					
Starkrimson		Roy Bisbee, Hood River, Oregon		AP-H-144	WaP
Starkrimson		Stark Bros. Nur., Louisiana, Mo.	Bud mut. of Starking 1953. Fr. solid blush, dk. as season progresses. Tree consistent & heavy prod., appears more resist. to frost than other strains of Delic.		OhW, NjB, CnS MiC, ILU
Starkrimson					KaM, CkS, InL
Stark Summer		Stark Bros. Nur., Louisiana, Mo. 1957			NyC
Stephens Red		Summerland Res. Sta., (J. F. Stephens Orch., Oyama, B. C.)		AP-H-317	WaP
Sterling Red		Summerland Res. Sta., Summerland, B. C. 1958			OrC
Sterling Red #2		Summerland Res. Sta., (Peter Stirling Orch., South Kelowna, B. C.)		AP-H-316	WaP
Stripless		Lewis Richardson, Monitor, Wash. 1925	Delic. type, blush type.		NyC
Summer		Stark Bros. Nur., Louisiana, Mo.			PaU, OrC, NjB
Summer		Porter-Walton Co., Salt Lake City, Utah.		A48121	NyC

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<u>Delicious Sports</u>					
Summer		Plumfield Nurs., Fremont, Nebraska	Fr. lge., oblate to oblong, gr.-yel. to carmine; flavor good.		OhW
Sweet		Orig. at AES, N.Y. Introd. 1922	Deacon Jones X Delicious. Fr. lge., attrac., nicely colored, sweet, arom. Home use only.	2128	NyG, OhW
Sweet		Maloney Bros., Dansville, N. Y.		A34729	WyC
Sweet		Iowa State Univ., Hort. Dept., Ames, Ia.			IoA
Sweet					CnS
Thompson Red		Summerland Res. Sta., Summerland, B.C.		AP-H-315	WaP
Topred		C & O Nur., Wenatchee, Wash. 1958	Delic. type, col. earlier & dkr. than Shotwell Del. Striped.		NyG
Topred					OKS, InL
Tucker		Summerland, B. C.		AP-H-124 M-767	WaP WaM
Turner Red		Summerland Res. Sta., Summerland, B.C. 1957		AP-H-126 M-769	WaP WaM OrC, PaU
Vance		Waynesboro Nurs., Waynesboro, Va.	Fr. solid red, col. At least 2 wks. earlier than Delic.		WaM, MiG, OhW, PaU, NyG

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<u>Delicious Sports</u>					
Vance		N. Y. State Fr. Test Assoc., Geneva, N. Y.		150 N5923	PaU VtB MnS
Vance			Pos. on R12740-7A,		InL*
Vance Red		N. Y. Fr. Test. Assoc., Geneva, N. Y.	Early col., early ripening, sport.		NjB
Vance Red		AES, Blacksburg, Va. 1953			OrC
Vance Red				AP-H-337	WaP
Voelker		L. M. Voelker, Tieton, Wash.		AP-H-215	WaP
Voelker Red		L. M. Voelker, Tieton, Wash.		AP-H-103	WaP
Voelker Short Red Stripe		L. M. Voelker, Tieton, Wash.		AP-H-105	WaP
Voelker Solid Red		L. M. Voelker, Tieton, Wash.		AP-H-104	WaP
Walter Wood Spurred Red		Walter Wood Orch., Winthrop, Wash.		AP-H-272	WaP
Watson Hi Red		A. F. Morrison & Son Nurs., Zillah, Wash. 1955	Delicious type, colors earlier & dkr. than Starking. Striped.		NyC
Watson Hi Red		Everett Watson, Cashmere, Wash.		AP-H-28	WaP

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<u>Delicious Sports</u>					
Wellspur		Wells & Wade Fruit Co., Wenatchee, Wash.	Introd. 1958. Discov. 1952. Fr. solid red. Most nearly resembles Starkrimson. Tree spur type, bears heavily, substand. size.	AP-H-177	KaM WaM
Wellspur		Van Well Nur., Wenatchee, Wash.	Fr. solid red, tree spur type.	M5915	MnS ILU, MiG, OrC
Wellspur		Heath Nurs., Pateros, Wash.			NjB
Wellspur					InL, OkS
Williams		E. E. Williams, Crescent Bar, Wash.		AP-H-162	WaP
Witherell Selection		Addison Co., Vt. 1959 (Orig. Stark Bros.)		155	VtB
Woelke Red		Pete Woelke, Salem, Oregon, 1953			OrC
Worthen Red #1		C. Frank Worthen, Yakima, Wash.		AP-H-33	WaP
Worthen Spurred Golden		C. Frank Worthern, Yakima, Wash.		AP-H-302	WaP
Yarnell Red		Yarnell Orch., Okanogan, Wash.		AP-H-330	WaP
Yellow		1952		165	VtB

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<u>Delicious Sports</u>					
Yellow		Inter-State Nurs., Hamburg, Iowa			IoA
Yellow		Maine Apple Tree Pool	Non-bearing trees.		MeO
Yellow		Greening Nur., Monroe, Mich.			MiG
Yellow		Bountiful Ridge Nur., Princess Anne, Md. 1940		B-33869	MdG
Delictein		H. W. Smith, Omaha, Ark.	Delic. X Gravenstein Fr. lge., conic. 1/2 splashed stripes. Flesh cream sa., soft. Good. Mid.-Sept.		NyG
Deloon					CnS
Delux		Willis Nur., Ottawa, Kansas	Early ripening. Resembles Lodi.	48131	NyC
Delux					OkS
De Maunerbe	162613	Glenn Dale, Md.	Late blooming, cider apple.		NjB
Demonstrate		Dr. G. Mate, Hobart, Tasmania 1959	Fr. lge., oblate, covered w. dk. blush. Flesh creamy, sa., poor. Mid.-Oct.		NyG
De Rocha St. Lawrence		V. J. De Rocha, Bristol, R. I. 1929	Bud mut. of St. Lawrence. Solid blush, instead of striped.		NyG

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Devonshire Quarrenden	125266	England 1937			MdG
Diana		Dom. Exp. Farm, Morden, Man. 1929	Fr. sm.-med., covered w. red stripes. Rnd.-conic. Flesh creamy, soft, sa., good. Late Sept.		NyG
Diana	107208	Glenn Dale, Md.	Mitchurin's vars. from Ghernigon.	A42257	WyC
Directeur Lesage	162725	France 1948			MdG
Doch Diany (Dica Diana)	259448	Poland 1959			MdG
Dr. Clifford	131283	England 1938			MdG
Dr. Mathews					PaU
Dolgo		As Seed From Imperial Bot. Gar., Leningrad, USSR	Sdlg. introd. 1917. Fr. long- conic. 1" diam., brill. red. Excel. jelly. Early Sept., drops freely. Early, alter- nate bearer, v. prod. Tree v. vig., strong, well-spaced scaffold brs. Sdls. make good rt.-stock but v. hard wood makes grafting diff. Ornam. Ident. w. Alexis. May be good parent. V. resist. to blight & scab.		SdC, NdM
Dolgo		AES, Brookings, S.D. 1916	Fr. sm., 100% dk. red, rnd., sl. oblong. Flesh lt. yel., sl. acid, astr. Mid.Sept.		NyG
Dolgo		Inter-State Nurs., Hamburg, Iowa			IoA

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Dolgo		Brandv Poeny Farms, Faribault, Minn. 1950		29	VtB
Dolgo		AES, St. Paul, Minn.	1 yr. neg. on R12740-7A, Resist. some races of scab.		InL*
Dolgo		Oscar H. Will Co., Bismarck, N. D.	Hardy crab for interstock. Fr. useable for jellies. Sdls. good for rtstock.		NdF
Dolgo					NjB
Dolgo	157047	Glenn Dale 1946			MdG
Dolgo		Sonderegarr's Nur., Beatrice, Nebr.	Russian orig., 1897. Fr. sm. V. prod. White blossoms, tree upright, vig.	A32676	WyC
Domaine	173979	France 1949			MdG
Domaine	173979	Glenn Dale 1958	Cider apple.	27	McC
Donald		Central Exp. Farm, Ottawa, Canada 1940	Fr. med.-lge. w. dull red stripes. Flesh creamy, sa., soft-firm. Qual. fair. Early Oct.		NyG
Donald	143175	Canada 1941			MdG
Double Bon Pommier	131104	France 1938			MdG
Doucet Rouge	161760	France 1948			MdG
Doux-amer	122616	France 1937			MdG
Doux-amer Grix	136251	France 1940			MdG

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Doux Belan	162062	France 1948			MdG
Doux Beland	162062	Glenn Dale, Md.	Cider apple.		NjB
Doux Courcier	162726	France 1948			MdG
Doux Lozan	162546	France 1948			MdG
Doux Lozan	162546	Glenn Dale, Md.	V. late blooming cider apple.		NjB
Doux Normana	158732	France 1947			MdG
Doux Tardif	162715	Glenn Dale, Md.	Cider apple.		NjB
Doux Tardif #3331	162547	France 1948			MdG
Doux Tardif	162715	France 1948			MdG
Dove	246361	England 1958			MdG
Drap d'Or de Guéméné	131823	France 1939			MdG
Driver Dwarf		Eual Driver, Wenatchee, Wash.		AP-H-188	WaP
Dropmore Red		Manitoba Hardy Plant Nurs., Dropmore, Manitoba, Canada		A38657	WyC
Downing #2		E. J. Downing, New Madison, Ohio	Golden Delicious X Rome Beauty. Fr. sm., rnd.-conic, lt. carmine, flavor fair.		OhW, PaU

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Downing #2		Stark Bros. Nur., Louisiana, Mo.			MeG
Duchess		Old Russian var. brought to US early 19th century. Purch. from Ellanger & Barr, Rochester, N.Y. 1883	Fr. med.-lge., uniform, rnd. to oblate. Skin pale gr.-vel., nearly cov. w. irreg. splashes of red. Flesh nearly yel., crisp juicy, arom., sa., v. good culin. Late Aug.-Sept. Tree med. in size & vig.		NyG
Duchess			Early summer, v. hardy, early blooming.		NjB, KaM, MeO MiE, PaU
Duchess		H. F. Maxon, Walla Walla, Wash.		AP-H-173	WaP
Duchess		Station	Fr. 4/1b., oblate, red stripe, tart, fair qual. Mid. Aug. Blight suscept. Transmits hard- iness to progeny.		NdM
Duchess		Plumfield Nurs., Fremont, Neb.	Orig. Russia. Extremely hardy & prod. Early.	33411	WyC
Duchess	148150	New York 1944			MdG
Duchess	148150	Glenn Dale, Md.		AP-H-252	WaP
<u>Duchess Sports</u>					
Daniel's Duchess		Daniel Nur., Long Lane, Minn. 1923	Fr. med.-lge. more red than reg. Duchess. Attrac. solid red w. faint stripe.		NyG

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<u>Duchess Sports</u>					
Daniel's Red		Daniels Nur., Long Lake, Minn.	Sim. to standard Duchess, but much better col. Hardy parent of several Minn. sels.		MnS
Daniels Red					PaU
Double Red		Stark Bros., Louisiana, Mo. 1948			OrC
Duchess of York's 136000 Favourite		England 1940			MdG
Favourite Duchess 126873		England 1938			MdG
New Duchess					SdC
Red Duchess					SdC, IU
Red		Strands Nur., Taylor Falls, Minn.		A33660	WyC
Red		Kelly Bros. Nur., Inc. Dansville, N. Y. 1952		156	VtB
Red		Station		10475 12258	VtB
Red		AES, Ames, Iowa			IoA
Red Van Buren		Andrews Nur. Co., Faribault, Minn.	Red sport of Duchess,	A48364	WyC
Red Van Buren		N. Y. Fruit Test. Assoc. Geneva, N. Y.			NiG
Red Van Buren		Andrews Nur. Co., Faribault, Minn.	Red sport of Duchess.	A48364	WyC
Red Van Buren		N. Y. Fruit Test. Assoc., Geneva, N. Y.			MiG

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<u>Duchess Sports</u>					
Red Van Buren		AES, Ames, Ia.			IoA
Van Buren		Fruit Test. Assoc., Geneva, N. Y. 1937	Red sport of Duchess. Fr. attrac. solid red color Intro. comm.1937.		NyC, KaM
Van Buren		F. L. Block, Ortonville, Minn.		W4339	MnS
Dudley			Extreme winter hardiness.		MeO
Dudley		Hort. Field Sta., Cheyenne, Wyo.	Hardy, blight suscept.		NdM
Dudley		Shenandoah Nur. Co., Shenandoah, Iowa	Sdls. of Oldenburg. Prod.	A32362	NyC
Dufflin	175542	England 1949			McC
Dufflin	175542	Glenn Dale, Md.		24	McC NyC
Duke of Devonshire		Introd. in England ca.1835 Bunyard & Co., Maidstone, England 1928	Fr. sm.-med. oblate-rnd. conic. Skin thin, dull yel. w. orange or bronze blush. Partly cov. w. russet. Flesh yel. or gr., firm, mod. juicy, sa., Good to v. good. Dec.-April. Tree lge., vig., spreading.		NyC
Dulcet		Dominion Exp. Sta., Morden, Manitoba		A524	NyC
Duncannon					PaU

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Dunning		Orig. at AES, Geneva, N. Y. Introd. 1938	Early McIntosh X Cox Orange. Fr. med.-lge., half striped red, rnd. conic. Flesh creamy, sweet, fair. Ripens unevenly.	6526 A48141	WyG WyC IU, OrC, MiG, PaU
Dushistii Ledenetz		Glenn Dale (Mitchurin's vars.)		A42258	WyC
Dvurogoe	107210	Glenn Dale (USSR)		A42259	WyC
Dymock	161836	England 1948			MdG
Dymock	161836	Glenn Dale, Md.	Winter cider apple.		NjB
Dymock	162441	England 1948			MdG
Earlham		John Robertson, Hot Spring, S. D.	Colo. Orange X Allen's Choice,	A31227	WyC
Earliblaze		Stark Bros. Nur., Louisiana, Mo.			NjB, MiS
Early Harvest			Fr. med., uniform in size & shape. Skin thin, tender, v. smooth, clear pale waxy yel. Tree med., mod. vig., upright spreading, bark dk. brown, buds med. size.		PaU, KaM
Early Harvest		H. & W. Nursery	Sdlg. Fr. med., oblate, gr. to yel. Flavor fair.		OhW
Early Harvest		Plumfield Nurs., Fremont, Neb.	Fr. med. size, early.	A35155	WyC

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Early Harvest		AES, Ames, Iowa			IoA
Early Joe		East Bloomfield, Ontario Co., N. Y., early 19th Cent. From A. C. Anderson, Kansas City, Mo.	Fr. sm.-med., oblate conic. conic. Skin thin, pale gr.- yel, irreg, splashed w. dull red. Flesh sl. yel., crisp, v. good to best. Dess. apple for home garden. Aug.-Sept. Tree mod. vig.		NyG
Early Redbird		Inter-State Nurs., Hamburg, Iowa		N5823	MnS IoA
Early Redbird		Stark Bros., Louisiana, Mo.		B-36976	MdG IUU
Early Redbird					PaU, InL
Early Ripe					PaU
Early Strawberry		Jewell Nur., Lake City, Minn.	Med. crab.	A32769	WyC
Early Strawberry	143177	Canada 1941			MdG
Early Victoria	107173	Glenn Dale (Schmidt's material - Germany)	3 yrs. neg. on R12740-7A.		InL*
Early Worcester	157218	Glenn Dale, Md.	Late summer.		NjB
Eastman		Sherman Nur. Co.	Regularly & highly prod.	A32835	WyC
Edgar		Centr. Exp. Farm, Ottawa, Canada 1940	McIntosh X Forest. Fr. med. size, cov. w. stripes, attrac. Flesh semi-firm, cream, sa., good. Early Oct.	N5272	NyG MnS

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Edgar		H. L. Palmer, Pittsfield, Maine		AP-H-15	WaP
Edgewood		Snyder Bros., Center Point, Ia.		A33623	WyC
Edgewood					CnS, NjB
Edgewood		AES, Ames, Iowa			IoA
Edgewood		Mount Arbor Nur., Shenandoah, Iowa	Jonathan X Salome. Fr. med.- lge., oblong to conic, med. red. Flavor fair.		OnW
E. G. Russett		Sherman Nur., Charles City, Iowa		A49115	WyC
Ejbiĵ			Mosaic & Pos. on R12740-7A.		InL*
Elk River					PaU
Elk River	127693	Glenn Dale 1950		20	VtB
Elk River	127693	Glenn Dale, Md.	Tetraploid.		NjB
Elkhorn Crab		Stevenson Bros., Morden, Manitoba, Canada	Jewell X Gideon. Lge. fr. crab.	A33872	WyC
Ellis Bitter	162442	England 1948			McG
Elmer	143892	Glenn Dale, Md.	Non-oxidizing.		NjB
Elmer		Centr. Exp. Sta., Ottawa, Canada 1960	Fr. med., 3/4 cov. w. splash, but not red enough. Flesh cream, semi- firm, sa., good. Mid.-Oct.		NyG

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Elsa Crab			Fr. 30/lb., oblong-conic., yel. flesh, juicy, astr. Blight resist. Late Aug. Hardy.		NdM
Elsa		Boughen Nurs., Valley River, Manitoba, Ca.	Crabapple, prod.	A32953	WyC
Emilia	123989	Canada 1937			MdG
Emilia		Centr. Exp. Farms, Ottawa, Canada 1933	Fr. lge., 1/2 covered w. red stripes on gr. gnd.- color. Flesh gr.-creamy, med. firm, sa., juicy. Qual. good. Late Oct. Tree lge.		NyG
Encore	104726	England 1934			MdG
English Codling		Bountiful Ridge Nur., Princess Anne, Md.		A35368	WyC
English Golden Russet					PaU
English Jame Grieve		Glenn Dale, Md.			NyG
English Restreak		Calif. Nurs. Co., Niles, Calif. 1944. Old English var. (prob. since 1800.)	Fr. med., rnd. Skin strip- ed w. red, on yel base. Flesh yel., firm, rich, sl. dry, good - v. good cooking. Good cider. Tree med. vig. reg. growth.		NyG
Englischer Winterprinz	125752	Germany 1937			MdG
Enormous		AES, Lander, Wyo.		A3494	WyC
Ensee					PaU

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Epicurean		Appleby Fr. Farms, Kingston Abington, Berkshire, England 1958	Fr. lge., rnd.-conic. 3/4 striped. Flesh cream, soft, mild, good, arom. High qual. Late Aug.		NyG
Erickson			Fr. v. lge. Fair culin. qual. Early maturing. V. hardy.		SdC
Erickson		J. V. Bailey, St. Paul, Minn.	Duchess type, but rougher fr. Reg. prod.	A32654	WyC
Erickson		Station, Mandan	Fr. 3/lb., oblate, red-red stripe, tart, sa., fair to good, late Aug. Blight suscep.	10165 12255	NdM
Erickson		Brand Peony Farms	2 yrs. neg. on R12740-7A.		InL*
Erie	148705	Canada 1944	Sdlg. of Malus Pumila var. Niedzwetzkyana.		MdG
Erie	148705	Brand Peony Farms, Faribault, Minn. 1950		18	VtB
Erie		Dominion Exp. Farm, Morden, Manitoba, Canada	Rosy-bloom crab.	N4539	MnS
Erie		Glenn Dale, Md.			PaU, NtB
Ernest Bosch		Glenn Dale 1953	Fr. med., lt. yel. Flesh wh.-creamy, semi-firm, sa., good. Early Oct.		NyG

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Esopus		Orig. in N.Y. State early 19th Century. Ellwanger & Barry, Rochester, N.Y. 1883	Fr. med.-lge. Rnd.-sl. rnd.- conic. Skin tough, waxy, yel. nearly cov. w. brt. red blush. Flesh sl. yel , firm, crisp, juicy, arom., sa., v. good. Store Nov. late Feb. or March. Tree mod. vig., slow growing.		NyG
Esopus Spitzenburg		AES, Univ. Park, Pa..			NjB, PaU
Etter's Gold		Calif. Nur. Co., Niles, Calif.	Fr. above med., rnd.-oblate, yel. Flesh firm cream, sl. acid fair. Early Oct.	A48102	WyC, OhW, NyG, NjB, OrC
Eureka					PaU
Euzia	137042	Switzerland 1940			MdG
Excellenz Thiel	66298	England 1926	Weeping tree of German orig.		MdG
Fairwood		Stark Bros. Nur., Louisiana, Mo. 1945			NyG
Fairy		Arn. Arb. 1940		B-35627	MdG
Fall Pippin		Unknown, prob. Amer. var. - W. T. Smith Co., Geneva, N. Y. 1917	Fr. lge.-v. lge. Rnd. to rnd.- oblate, inclined to conic. Skin thin smooth, clear yel. (when ripe) Flesh wh. or tinged w. yel., rather firm, v. juicy, sa., sl. arom. V. good. Late Sept.-Jan. Tree lge., vig. For home use only.		NyG
Fall Pippin			Sdlg. Fr. lge., oblate to oblong, gr.-yel. Flavor good.	172	VtB NjB, PaU, OhW

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Fameuse		Old var. of unknown origin.	Winter. V. good qual.		MnS
Fameuse			Fall, early blooming.		NjB
Fameuse		Unknown, J. C. Johnson, Miranda, Quebec, Canada 1899	Fr. med. rnd. sometimes sl. conic. or oblate. Skin thin, smooth, brt. red bluish. Flesh wh. (snow), v. tender, juicy, sa., arom., v. good dess. Oct.- mid-winter. Tree vig.		NyG
Fameuse		Kimberly Nurs., Kimberly, Idaho		A48278	NyC
Fameuse			Deeper red color than Fameuse, stripes less conspicuous.		MiB, IUU, CnS, PaU
Fameuse		Iowa St. Univ., Hort. Dept., Ames, Iowa			IoA
Faribault		Clinton Falls Nur., Owatonna, Minn.	Crabapple.	A32430	NyC
Farnsworth		Wm. W. Craig, Weymouth, Mass.	Lge. vel. apple.	A33382	NyC
Faro	127360	France 1938			MdG
Faurot		Fr. Exp. Sta., Mt. Grove, Mo. 1958	Fr. med.-lge., attrac. red stripes on whole fr., red- conic. Flesh nearly wh. firm, sa. Qual. fair. Late Oct. Tree v. prod.		NyG, NjB
Federowka		Thomas Mannsichner, Pfaffenhoffen/llr. Bavaria, Germany		N4863	MnS

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Feltham Beauty	127008	England 1938			WdG
Fenovillet Gris	136591	France 1940			WdG
Fertile de Doue	122617	France 1937			WdG
Feuillard	173980	France 1949			WdG
Feuillard	173980	Glenn Dale, Md.	French cider apple.	10	WdC WvC
Feuille Morte	238385	Glenn Dale, Md.	Positive on R12740-7A.		InL*
Fey's Record	125686	Germany 1937			WdC
Filippa	102139	Glenn Dale, Md.	Pos. on R12740-7A.		InL*
Filippa		Buds from R. Nitschke, Birmingham, Mich.			NAB
Fireside		Andrews Nurs., Faribault, Minn.	Fr. lge., rnd.-oblate, skin med. red, usually striped dkr. Flesh vel., med. firm & juicy. Mild sa., qual. good. Mid. Oct. Tree vig. V. hardy. Resist. apple-cedar rust.		WvC, SdC, OnW NdF
Fireside		AES, Excelsior, Minn.		AP-H-110 M-761	WdJ, WIS, MnS, OrC WaP WdM*
Fireside		Inter-State Nurs., Hamburg, Iowa			IoA
Fireside		Shenandoah Nurs., Shenandoah, Ia.		A48116	WvC

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Fireside			2 yrs neg. on R12740-7A.		InL*
Fischer Apfel	137043	Switzerland 1940			MdG
Flame		Bill Balser, St. Paul, Minn.	Hardy trunk stock	AP-H-259	WaP
Flame		AES, Excelsior, Minn.	Ornam. crab, primarily. Flowers wh. fr. brt. colored, hangs well.		MnS
Flame		U. S. Northern Great Plains Field Sta., Mandan, N. Dak.	Ornam. type. Fr. hangs well on tree.	A52367	WyC
Flaskeple	105182	Norway 1934			MdC
Flavescens	215795	Germany 1955			MdG
Fleuritard	136592	France 1940			MdC
Flintynskie	131035	Poland 1938			MdG
Florence Crab		Northwest Nur. Co., Valley City, N. Dak.	Fr. hardy, heavy bearer. Med. size.	A32265	WyC
Florence Crab	155454	Canada 1946			MdG
Florence Crab			Fr. 25/lb., oblate, red stripe, juicy, sl. astr. Biennial bearer. Tree sl. dwf. blight resist., most sdlgs. also blight resist. Good crab, hardy. Late Sept.		NJB, NdM
Flower of Kent		AES, Univ. Park, Pa. 1955	Fr. ine., conic, 1/2 splashed on lt. gr. background. Culin.		WyC

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Folwell		AES, Excelsior, Minn.	Op. sdg. of Malinda. Fr. lge., poorly colored. Good dess. and culin. Prod. Annual bearer. Sept.		MnS
Folwell		Summit Nurs., Stillwater, Minn.	Op. sdg. of Malinda. Tree resembles Hibernial. Lea. fr.	A33194	WyC
Foreland		Centr. Exp. Sta., Ottawa, Canada			OhW
Forest King		AES, Brookings, S. D.	Hybrid wild crab.	A33388	WyC
Fort Vancouver		Fort Vancouver, Wash.		AF-H-36	WaP
Foster	129824	Australia 1938			MdG
Foxwhelp		Kelly Bros., Dansville, N. Y.			PaU
Foxwhelp	131598	England 1939			MdC
Foxwhelp	131598	Glenn Dale, Md.	Crab apple.		MdC, NjB
Foxwhelp		Res. Sta., Long Ashton, Bristol, England 1936	Fr. lge., rnd.-oblate, almost 1/2 cov. w. dull stripes on gr. gnd. Unattrac. Flesh nearly wh. sa., med. firm, fair. Early Oct.		NyC
Frass Kalvill	104787	Glenn Dale, Md.	Apple mosaic & pos. on R12740-7A.		InL#
Framboise d'Oberland	236480	France 1957			MdG

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Franklin		Wooster, Ohio	McIntosh X Delicious. Fr. above med., conic., well colored-splashed. Flesh cream, sl. soft, sa., good qual. Early Oct.	139 AP-H-154 N4519	OrC, NyG, NjB, PaU, WiM, WiS, OhW VtB WaP MnS
Franklin					CnS
Franklin		N. Y. State Fr. Test. Assoc., Geneva, N.Y.	Red striped, fall dess.	35	MoC MeO
Franklin		AES, Orono, Maine, 1954			MeO
Franklin		Bohlender Nurs., Tipp City, Ohio	McIntosh X Delicious.	A53120	WyC
Franklin			Pos. on R12740-7A.		InL*
Frantz		Field Station, Herminston, Ore.		AP-H-238	WaP
Frantz		Sondregger's Nur., Beatrice, Nebr.		A32674	WyC
Frederick	161837	England 1948			MdG
Frederick von Braden	104789	Glenn Dale, Md. (Sweden)	Pos. on R12740-7A.		InL*
Freiherr von Berlepsch	194105	Glenn Dale, Md. 1953	Fr. med., oblate, w. 90% stripes. Flesh yel.-creamy, sl. acid. Good. Mid.-Oct.		NyC
Frequin	162503	France 1948			MdG
Frequin Audievre	161838	England 1948			MdG

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Frequin Lajoie	136255	France 1940			MdG
Frequin Rouge	162729	France 1948			MdG
Frequin-Tardif	136256	France 1940			MdG
Frequin Tardif	158733	France 1947			MdG
Freyberg		Fr. Res. Orch., Goddard Lane, Havelock, North, N.Z. 1961			NyG
Frimley	133515	Australia 1939			MdG
Frimley Beauty	199693	Glenn Dale 1957	Fr. sm. than Barkley Rome. Attrac. crim. Late Oct.		NyG
Frogmore	104790	Sweden 1934			MdG
Fromme Scab Resistant			Grimes Golden on French Crab sdlg. Fr. gr., highly astr. Poor qual. Tree blossoms abt. 3 wks. later than comm. vars. Reported highly resist. to scab.		VaB
Fromm's Goldrenette	131144	Germany 1938			MdG
Frostprof		Max Nur., Mineral, Va. 1946	Fr. sm., gr. covered w. dirty brown blush, russet. Flesh firm gr., v. acid, v. astr., poor qual. Blooms 2 wks. after Rome Beauty, Early Nov.		NyG, OrC
Fuero Rous	187352	France 1950			MdG

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Fukunishiki	199526	Glenn Dale 1954	Ralls X Delicious. Fr. waxen, scurf-skin; yel.-gr., on brownish purple, red stripes overspreading w. thick wax. Mid Oct. Tree lge., vig., healthy. Flowering is same as Delic. 2 yrs. neg. on R12740-7A.		MdG, NyG, KaM InL*
Fukutami	195826	Glenn Dale 1953	Jonathan X Ralls Janet. Fr. med. sl. oval., qual. good. 1/2 covered w. attrac. stripes. Flesh creamy, firm, sa. V. early Oct. Liable to water core in stor. V. good dess. 2 yrs. neg on R12740-7A.		NyG, InL*
Fukuuta	135686	Japan 1940			MdG
Furcy Lacaille	247314	France 1958			MdG
Furcy Lacaille	247314	Glenn Dale 1960	Cider apple.	22	MoC
Fyan		Fr. Exp. Sta., Mt. Grove, Mo. 1936	Ben Davis X Jonathan. Fr. med.-lge., rnd.-conic, carmine. Flesh wh.-cream, firm, sa., good.		NyG, NjB, MiG, OhW
Galer		Galer, Hood River, Ore.		AP-H-133	WaP OrC
Gallen	224609	Finland 1955			MdG
Gallen	224609	Glenn Dale, Md.			PaU, MiG, NjB, NyG, IUU
				N5797	MnS
				A57101	WyC
				AP-H-289	WaP
				125	VtB
				102	WaW

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Galton		Centr. Exp. Farms, Ottawa, Canada 1933	Fr. med.-lge. nearly cov. w. attrac. stripes. Flesh soft, creamy, sa., fair qual. Early Oct.		NyG
Gano		M. Butterfield, Lee's Summit, Mo. 1892	Fr. med.-lge., rnd.-conic; skin smooth, waxy, yel., blushed w. pink. Flesh wh., firm, crisp, juicy, sa. Good qual. Stor. Dec.-April.		NyG
Gano					PaU
Gano		Kentucky or Missouri	Fr. med.-lge., rnd.-conic. Smooth, waxy, skin clear lt. yel. Mod. vig. tree, long brs. Bud sm. to med.		KaM
Gano		Plumfield Nurs., Fremont, Nebr.	Fr. sm. than Ben Davis.	A322567	WyC
Garland Williams		AES, Blacksburg, Va. 1961			NyG
Garnet Crab		Boughen Nurs., Valley River, Manitoba, Canada	Yellow Siberian crab sdlg. Useful for topworking.	A32958	WyC
Garretson Seedling		Garretson Orch., Naches Hgts., Wash.		AP-H-339	WaP
Garrison		Station	Duchess X Starking 4/lb., rnd., attrac., red, sa. Delic. type flavor. Late bearer. Early Sept. Blight resist. Hardy.	11390, 11732, 11969, 12042	NdM

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Garrison		Northern Great Plains Field Sta., Mandan, N.D.		N5778	NyG, Ohw MnS
GDWFL	255599	Australia 1959			MdG
Geeveston Fanny	199687	Glenn Dale, Md. 1956			NyG
Geheimrat Breubahn		Thomas Mannseichner, Pfaffenhoffen /11, Bavaria, Germany		N4849	MnS
Gelber Triererweinafel 126991		Germany 1938			MdG
General Carrington					PaU
General Grant		Clinton Falls Nurs., Owatonna, Minn.		A32431	NyC
Geneva		Dominion Exp. Sta., Morden, Manitoba	M. pumila var. Niedzwetzkyana, 6/lb. Flowers red. Fr. oblong, all red, red flesh, no flavor, poor. Late Aug. Some blight.	10665	NdM
Geneva		AES, Purdue, Ind.	Tetraploid.	50-6, 16884	ILU
Geneva	128404	M. B. Davis, Ottawa, Ontario, Canada		A38677	NyC
Geneva		Morden Exp. Sta., Manitoba, Canada	M. pumila var. Niedzwetzkyana, Op. Resist. to some races of scab.		InL
George Carpenter	123725	England			MdG
George Cave	246402	England 1958			MdG

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George Miller		AES, Brookings, S.D.	Crabapple	A38352	WyC
Gertrude Crab		Wallace Nurs., Ltd., Portage La Prairie, Manitoba, Canada		A48357	WyC
Gewurzluiken	132225	Germany 1939			MdG
Giant		Native wild crab of unknown ancestry. Found near Sherrard, Illinois, 1911	Fr. v. lge. (3"), firm, acid, inedible. Tree vig. & prod. Grafted trees maintained since 1911.		SdC
Giant		AES, Brookings, S.D.		A33390	WyC
Giant	127694	S.D. 1938			MdG
Giant	127694	Glenn Dale, Md.		22	VtB
Giant Wild					PaU
Gideon		Ithaca, N.Y. 1956			NyG
Gideon		John M. Steinbreck, Lander, Wyo.	Prob. Small Crab X Blue Permain. Med. size fr.	A3498	WyC
Giles Sport			Apparently gigas sport of Giles. Tree growth habit of gigas types. Blossoms v. sparsely & sets few frs. which average 5" in diam., well colored. Mid-Sept. Average qual. Polyploidy not confirmed.		VaB
Giles		AES, Blacksburg, Va. 1961			NyG

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Gilet Rouge	136257	France 1940			MdG
Gladstone	206023	Ireland 1953			MdG
Gladstone	206023	Glenn Dale, Md.		AP-H-197 N57100 A5788	WaP MnS WyC MiG WaW
				111	
Gladstone	102140	Sweden 1933	Orig. England. Skin yel.- gr., overspread w. clear dk. red. Good qual. dess. Season Aug.-Oct.		MdG
Glenton					CnS
Glenton		Bountiful Ridge Nurs., Princess Anne, Md.	Northern Spy X Open.	A48237 B33866	NyG WyC MdG
Glenton		Canada	Fr. med. shape, oblate to oblong, grn.-yel. to carmine. Flavor fair to good.		OhW
Glocken	134808	Switzerland 1939			MdG
Gloucester Cross	104613	England 1934			MdG
Gloria Mundi		Hudson Nur. Co., Tangent, Ore.	V. lge. fr.	A341266	WyC
Godfrey		Summit Nur.	Patten Greening op.		OhW
Gold Canel	157207	Finland 1947			MdG
Goldreinette Casis	134807	Switzerland 1939			MdG

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Golden Anniversary		Oscar H. Will & Co., Bismarck, N.D.	Unknown sdlg. Prod. 15/lb., rnd.-oblong, orange red, juicy, tart. Blight resist. Hardy. Mid-Sept.	A32864	WyC NdM
Golden Anniversary	148419	N.D. 1944			MdG
Golden Beauty		Harrison Nur. Co., York, Nebr.		A33433	WyC
Golden Gem	141210	England 1941			MdG
Golden Hornet	213405	England 1955			MdG
Golden Melon	195827	Glenn Dale, Md. (Japan)	Golden Delicious X Indo. Fr. med.-lge., conic., sm., dull orange stripes on gr.- yel. gnd. Flesh yel.-cream, firm, sweet, good. Early Oct.		OhN, NyG
Golden Noble	104030	Glenn Dale, Md. (Old Eng. var. known probably before 1820).	Fr. med., rnd. Some varia- tion oblate-conic. Skin yel., little flush if exposed to sun. Sl. russet. Flesh yel. rather soft, acid. V. good culin. Oct.-Dec.		NjB, NyG, PaU
Golden Russet					ILU, MiG, MiE
Golden Russet		AES, Ames, Iowa.			IoA
Golden Russet		H. L. Palmer, Pittsfield, Maine		AP-H-63	WaP

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Golden Russet		Orig. unknown. Kelly Bros. Nur., Dansville, N.Y. 1948	Fr. med., rnd. w. little variation, skin thick, gr. or yel. nearly cov. w. russet & sl. blush. Flesh yel., fine grained, juicy, rich, arom., v. good. Season Dec.-April or later. Tree med.-lge., vig.		NyG
Golden Russet		Snyder Bros., Center Point, Iowa		A33609	WyC
Golden Sweet		Storrs & Harrison, Painesville, Ohio		A34199	WyC
Gold King		Elon Gilber, Yakima, Wenatchee, Wash. 1961			NyG
Goldo		AES, Brookings, S.D. 1927	Duchess X Grimes Golden. Fr. med.-lge. rnd.- conic., skin lt. gr.-yel. Flesh semi-firm, creamy, sa. Qual. fair. Late Sept.		NyG
Goldo		Plumfield Nurs., Fremont, Nebr.		A33415	WyC
Goodhue		Jewell Nurs. Co., Lake City, Minn.	Perkins sdlg. #121. Op. sdlg. of Malinda. High yielding, good qual. One of the top vars. at Cheyenne.	A32766	WyC
Goodland		Dominion Exp. Sta., Morden, Manitoba	Patten Greening.	12304	NdM
Graham		Greening Nurs. Co., Monroe, Mich.	Fr. lge., rnd.-conic, 50% striped. Flesh firm, lt. yel., sa., fair. Late Sept.	A56390	NyG WyC

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Grange's Pearmain	131437	England 1939			MdG
Granny Mac	129826	Australia 1938			MdG
Granny Smith	88571	New Zealand 1930 (Australian var.)			MdG
Granny Smith	88571	Glenn Dale, Md.	Valuable as virus indicator only.		MeO*
Granny Smith		AES, Univ. Pk., Pa.			PaU
Granny Smith		Glenn Dale, Md. 1930	Fr. med., oblong, gr., sometimes sl. russet. V. juicy, dess. Feb.-Mar.		NyG
Granny Smith		Hayes Orch., (KLO) East Kelowna, B.C.		AP-H-258	WaP
Grave Herbstveinette		Lehrenstalt Geishenheim Rl., Germany 1931	Fr. med.-lge. Gr.-russet w. sm.spots, unattrac. reddish col. Flesh wh.-cream, med. firm, sa., fair qual. Early Oct.		NyG
Gravenstein					NjB, PaU
Gravenstein		Ellwanger & Barry, Rochester, N.Y. 1888 Prob. from Germany	Fr. lge., oblate to rnd., somewhat irreg. Skin thin, gr.-yel. w. broken stripes lt & dk. red. Flesh yel., firm, crisp, juicy, sa., arom., v. good to best. Late Sept.-early Nov. Tree lge., vig. Dual purpose apple.		NyG
Gravenstein		Stan Walters, Puyallup, Wash.		M-533	WaM*

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Gravenstein	205862	Glenn Dale, Md.		AP-H-285 103	WaP WaW
Gravenstein		AES, Geneva, N.Y.			OrC
Gravenstein		Milton Nur., N.Y. 1941			OrC
Gravenstein	249923	New Zealand 1958			MdG
<u>Gravenstein Sports</u>					
Banks		Greening Nur. Co., Monroe, Mich.			OhW
Blood Red	199096	Denmark 1951			MdG
Blood Red	199096	Glenn Dale, Md.			MiG, MeO, NyG, OrC
				AP-H-281 78	WaP MoC
Crimson		Stark Bros. Nur., Louisiana, Mo.		A5180	Wyc
Dark Red	199688	Glenn Dale, Md.	Fr. lge., attrac., 1/2 red. Ripens early Sept. No flat limb virus.	AP-H-201 17	WaP WaW MiG, OrC, NyG
Gravensteiner	205862	Germany 1953			MdG
Looney Red		Glen Looney, Salem, Ore. 1956			OrC
Mead					PaU

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<u>Gravenstein Sports</u>					
Mead		R. J. Fisker, Lunenburg, Mass. 1928	Fr. solid red, v. little striping. Superior to other sports of Gravenstein.		NyG
Mead		N. Y. St. Fr. Test. Assoc., Geneva, N.Y.		N5856	MnS
Red		Maine Apple Tree pool			MeO
Red		N. Y. St. Fr. Test. Assoc., Geneva., N.Y.	Fr. med.-lge., oblate to oblong, grayish red, flavor good.	41 104	MoC Vt3 MeO, OhW
Red		Nova Scotia 1943			OrC
Red		C. D. Schwartz, Puyallup, Wash.		AP-H-183	WaP
Red					NjB, CnS, PaU
Red Australian	199689	Denmark 1952			MdG
Red Australian	199689	Glenn Dale, Md.		AP-H-253	WaP
Red Australian		Oscar Nobelins, Norme Warren, Victoria, Australia 1929	Fr. more red (80%) than any other Gravenstein sports. V. good qual. Sept.		NyG
Red Oratia	249926	New Zealand 1958			MdG
Shaw		AES, Amherst, Mass. 1916	Red sport of Cravenstein. Flat limb virus.		NyG
Shaw Crimson		Agr. College, Truro, N. Scotia, Canada. 1921	Fr. lge., rough, 1/4 striped. Early Sept.		NyG

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<u>Gravenstein Sports</u>					
Washington		H. L. King, FTA, Geneva, N.Y. 1935	Fr. lge., not much red color. Early Sept. Flat limb virus.		NyG
Yellow		Austin Smith, Brooklyn Farm, Peabody, Mass. 1959			NyG
Greasy Pippin	203812	Ireland 1953			MdG
Greasy Pippin	206024	Ireland 1953			MdG
Greasy Pippin	206024	Glenn Dale, Md.	Fr. lge., uniform in size, var. in shape. Rnd.-oblong inclined to conic. Skin thin, smooth, waxy, vel. Occasional russet. Flesh gr.-yel., firm, crisp, v. juicy, sa. Good.		NyG, InL
Greasy Pippin	203812	Glenn Dale, Md. 1959	Fr. lge., yel., v. juicy.	13	MoC
Great Yellow		Stark Bros., Louisiana, Mo.	Flesh yel., freestone, flavor mild, qual good; lge., matures early. V, soft flesh. Suscept. to brown rot.		NyG
Greenchisel	206025	Ireland 1953			MdG
Greenchisel	203813	Ireland 1953			MdG
Greenchisel	203813	Glenn Dale, Md.		A5786	WyC

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Greendale		Orig. at AES, Geneva, N.Y. Introd. 1938	McIntosh X Lodi. Fr. med., well shaped, skin gr. Good qual., dess. and culin. Late Aug.	4793	NyG
Greendale					PaU
Greendale		AES, N. Y. Hood River Sta. 1948		A48138	OrC, WyC
Grenadier	107174	Glenn Dale, Md.			InL
Grimes		Orig. in West Va.	Fr. med.-lge., rnd.-oblong. Tree mod. vig., upright spreading.		KaM
Grimes		Bountiful Ridge Nurs., Princess Anne, Md.	Fr. med., oblong-truncate, gr.-yel. Flavor good to v. good.		OhW
Grimes					WiS
Grimes			2 yrs. neg. on R12740-7A.		InL*
Grimes Golden		West Virginia	Chance sdlg. Known in 1804. Tree spreading, med. vig. Suscept. to bitter rot and fire blight.		KaM
Grimes Golden			Excell. qual., not reliably hardy (under some conditions).		NjB, CnS, PaU, MiE, IlU, SdC
Grimes Golden		Greening Nur., Monroe, Mich.			MiG
Grimes Golden		Shermand Nur. Co., Charles City, Iowa		A49109	WyC

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Grimes Golden		Bountiful Ridge Nurs., Princess Anne, Md. 1957	Fall, yel. dess. apple.	25	MoC
Grimes Golden		Stark Bros., Louisiana, Mo. 1914	Fr. med.-lge., rnd.-oblong, sl. inclined to conic. Skin tough, deep yel. w. russet dots. Flesh yel., v. firm, crisp, juicy, sa., rich arom., v. good. Nov.-Jan., Feb. Dual purpose. Tree mod. vig.		NyG
Grimes Golden		McNeil Island, Steilacoom, Wash.		M-529	WaM*
Grimes Golden		Inter-State Nurs., Hamburg, Iowa			IoA
Grise Dieppoise	158734	France 1947			MdG
Grise Dieppoise	125746	France 1937			MdG
Gros Bois	173981	France 1949			MdG
Gros Bois	173981	Glenn Dale, Md.		4	MoC, NyG, NjB
Gros Bois de Doudeville	122618	France 1937			MdG
Gros Frequin	131105	France 1938			MdG
Grosse Launette	161761	France 1948			MdG
Grosse Launette	161761	Glenn Dale, Md.			MiG
Grosse Mouche	162545	France 1948			MdG
Grosse Mouche	162545	Glenn Dale, Md.			NjB

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Grove		AES, Mountain Grove, Mo.	Ingram X Delicious. Fr. med., conic. cov. w. dk. red stripes. Flesh firm, creamy, sa., good. Mid.-Oct.	N454 M-867	OhW, NyG, NjB MnS WaM*
Grunheide	125223	Germany 1937			MdG
Guelton	131107	France 1938			MdG
Gul Richard	224197	Glenn Dale, Md.		A5792	WyC
Gyllenkroks Astrakan	104794	Sweden 1934			MdG
Gypsy Girl		U. S. Northern Great Plains Field Sta., Mandan, N.D.	Russian orig. Parentage unknown. Fr. lge., splashed w. red, sa., v. suscept. to blight. Hardy.	A52370 10576	WyC NdM
Haas					PaU
Hakko	135688	Japan 1940			MdG
Halberstadter Jungfernapfel	132149	Germany 1939			MdG
Halberstadter Jungfernapfel	132759	Germany 1939			MdG
Hall Keeper		H. S. Hall, Hannival, Mo. 1926	Fr. med.-lge., 60% cov. w. red stripes. Flesh cream, v. firm, sa., poor qual. V. late. Early Nov.		NyG
Hambling's Seedling	157729	England 1947			MdG
Hampus	104795	Sweden 1934			MdG

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Hangmann		Glenn Dale, Md. 1935	Fr. lge.-oblate, 50% splashed red. Flesh soft, nearly white, sa., fair. Early Sept.		NyG
Hansen		Summit Nurs., Stillwater, Minn.		A36417	NyC
Haralson		Cal Cooper, Pateros, Wash.		AP-H-233	WaP
Haralson		Hort. Field Sta., Cheyenne, Wyo. 1956	Malinda X open. Attrac. red, good culin. qual., stores well. Tree hardy. Not fruited to date.		NyG
Haralson			Op. sdlg. of Malinda. Winter hardiness.		MeO
Haralson		Oscar H. Will Co., Bismarck, N.D.			NdF
Haralson		Fr. Breeding Farm, Excelsior, Minn.	Malinda op. All purpose winter apple for northern regions. Fr. med., brt. red stripe to solid. Good but tart flavor, crisp & juicy. Late Sept. Stores well. Fr. clusters, tends to overbear. Important comm. in Minn.	AP-H-112 M-762 5711, 7494, 8564, 9865, 10213, 12039	MnS, Wis WaP WaM* NdM
Haralson		Northwest Nurs. Co., Valley City, N.D.	Op. sdlg. of Malinda. Tree vig. Attrac. red fr.	A32264	WyC
Haralson		Daniels Nur., Long Lake, Minn.			MiG

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Haralson		Andrews Nur., Faribault, Minn.	Malinda op. Lge. attrac. red fr., excel. culin. Excel. keeper, v. hardy.		SdC
Haralson		Inter-State Nurs., Hamburg, Iowa			IoA
Hardanger Rosenstrips		Glenn Dale, Md.	Fr. med., oblate, entirely covered w. stripes. Flesh nearly wh., astr., poor qual. Late Sept.		NyG
Hardeman		AES, Geneva, N.Y.		AP-H-184	WaP
Harriman	128405	M. B. Davis, Ottawa, Canada		A38678	WyC
Harter's Early		Cresco Nur., Cresco, Ia.	One of the earliest apples.	A31302	WyC
Hawley		R. Nitschke, 2363 Tilbury Pl., Birmingham, Mich. 1957	Not fruited to date.		NyG
Hawkeye Greening		AES, Ames, Iowa	Vermont sdlg. V. hardy, used as hardy interstem. Prod., v. lge. trees, Excel. culin. apple.		IoA
Hawkeye Greening		Mount Arbor Nur., Shenandoah, Ia.	Fr. gr.-yel. Hardy tree, prod.	A32249	WyC
Hawkeye Greening		Cal Cooper, Pateros, Wash.	Hardy trunk stock.	AP-H-234	WaP
Hawkeye Greening		Hort. Sta., Cheyenne, Wyo.	Blight suscept.	11610	NdM

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Heart River		Northern Great Plains Field Sta., Mandan, N.D.	Dolgo X Duchess. Red crabapple.	N5288	MnS
Heart River		Will's Nur., Bismarck, N.D.	V. hardy crabapple.		SdC
Heart River			12/lb., lge., rnd., orange-red, juicy, good flavor, excel. for pickles and jelly; blight suscept. Mid.-Aug. Hardy.		NdM
Heiya	135689	Japan 1940			MdG
Henry Clay					IlU
Henry Clay		Stark Bros., Louisiana, Mo.		A341257	CrC, PaU, WyC
Hereford Cross	104614	England 1934			MdG
Hereford Cross	104614	Glenn Dale, Md.		A5172	NjB, OrC, WyC
Hereford Cross		Glenn Dale, Md.			CnS
Hereford Redstreak	175543	England 1949			MdG
Hereford Redstreak	175543	Glenn Dale, Md.		19	MoC NyG
Hereford Redstreak	199416	England 1952			MdG
Herring's Pippin	136001	England 1940			MdG
Hibernal		Plum Grove Nurs., Hymers, Ont., Canada	Hardy interstock value.		NdF

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Hibernal		John Robertson, Hot Springs, S.D.	Valuable for topworking.	A34520	WyC
Hibernal		A.P. Stevenson, Dunston, Manitoba	4/lb., oblate, poor color, sl. russet, acid, poor. Late Sept. Blight suscept. Hardy.		NdM
Hibernal		Cal Cooper, Pateros, Wash.	Hardy trunk stock.	AP-H-323	WaP
Hibernal		Mandan, N.D.	Excel. var. as hardy framework tree. Tol. to stem pitting virus.		MeO*
Hibernal		AES, Ames, Iowa			IoA
Hibernal			Old Russian var. Fr. lge., juicy, pale yel. Good for sauce. V. hardy. Tree vig., w. open spreading top & v. lge. leathery lvs.		SdC, KaM, NjB, MnS, PaU
Hibernal		Andrews Nur., Faribault, Minn.	Fr. med+lge. oblate, gr.-yel., pale overcolor. Flavor poor, v. sour.		OhW
Hicklin		Stark Bros., Nur., Louisiana, Mo.			MiG
Hicks Everbearing		Oscar H. Will, Bismarck, N.D.	Productive.	A34295	WyC
Holland		P.I., Stephenville, Texas		A4136	WyC
Holland		Wolfe's Nur., Stephenville, Texas	Fr. med., oblong, gr.-yel., some w. pink blush. Flavor poor to fair.		OhW

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Hollow Crown		J. G. Case, Loden, N.Y. 1939	Fr. sm., lt. gr. Flesh soft, nearly white, sa., poor. Late Oct.		NyG
Hollow Log		Valdegian Nurs., Boshie, B.C., Canada 1928	Fr. lge.-v. lge., oblate, gr.- yel., smooth. Flesh med. firm, cream, sa., good. Early Sept.		NyG
Holovonske Malinowe	55215	Glenn Dale, Md.			InL
Honey Ball	206026	Ireland 1953			MdG
Honey Ball	206026	Glenn Dale, Md.	Fr. lge., sl. conic., 90% dull bluish. Flesh cream, soft, sweet, fair. Early Sept.		InL, NyG
Honora		J. Gelder, Chazy Orch., Chazy, N.Y.	Fr. med., entirely striped. Flesh soft, white, sa., fair. Late Sept.		NyG
Hoosier Seedling		Purdue Univ., Urbana, Ill.	Fr. med., oblate to oblong. Gr.-yel., w. carmine stripes. Flavor fair.		OhW
Hoover		Santiago, Chile 1960	Not fruited to date.		NyG
Hopa		AES, New Brunswick, Newfoundland 1932	Fr. v. sm., skin 100% crimson, pink flesh, extremely astr. Early Oct.		NyG
Hopa					NjB
Hopa		Carl Hansen Nur., Brookings, S. D.	Hardy, height & spread 21'; pink blossom, attrac. ornam.	8978	NdM

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Hopa	260728	Andrews Nur., Faribault, Minn. 1941		B36586	MdG
Hopa		AES, South Dakota	M. pumila var. Niedzwetzkyana X M. baccata. Intro. 1920. Flowering crab. Blossoms deep red showing some blue before petal falls. Fr. 1/2", inedible, alternate bearing. Sdlgs. resemble mother plt. Fl. & bark red throughout growing season. Blight-free & little scab. Ornam. only.		SdC
Hopa		Brand Peony Farms, Faribault, Minn. 1950		31	VtB
Hopa		Summit Nur., Stillwater, Minn.	Showy tree. Source of virule pollen. Hardy ornam.	A32311	WyC
Hopa		Iowa State Univ. Hort. Dept., Ames Ia.			IoA
Hopa Seedling #1	162972	Canada 1948			MdG
Horace		Dom. Exp. Sta., Morden, Manitoba	Langford Beauty parent.		NdM
Horei	195828	Glenn Dale, Md. 1954	Rolls Janet X Golden Del. Fr. sm., in clusters, conic., 60% stripe. Flesh firm, cream, sa., good. Late Oct.		NyG, CnS

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Horei			Fr. med.-sm., oblong or ovate, skin thick, smooth, sl. bloom, red stripes on yel. Flesh yel.-wh., firm, coarse, juicy, mild, sa. Good dess. Early Nov.-Mid June. Tree resembles G. Del. 2 yrs. neg. on R12740-7A.		InL*
Horner	161850	England 1948			MdG
Hornsberg	104797	Sweden 1934			MdG
Horse		Fruitland Nur., Augusta, Ga.		A49464	WyC
Houblon	127010	Glenn Dale, Md.	Fr. med.-lge., oblate, well colored, good flavor & qual.	N516 A5169	NjB, VaB MnS WyC
Hoggate	131077	England 1938			MdG
Hubbardston					PaU, MiE
Hubbardston		Orig. in Mass. early 19th cent. or before. J. H. King, Trumans- burg, N.Y. 1906.	Fr. med.-lge., rnd.-ovate to rnd.-conic. Skin yel. w. dots & flecks of russet. Flesh wh., mod. firm, crisp, juicy, arom. rich., v. good, Oct.-Jan. Tree vig., sometimes lge.		NyG
Huidobro	247025	Denmark 1958			MdG
Huidobro	40830	Glenn Dale, Md. 1908	Fr. med., rnd.-conic., 100% striped. Flesh yel.-cream, sa., firm. Fair qual. Early Oct.		NyG

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Humboldt		Calif. Nurs. Co., Niles, Calif.	Op. sdlg. of Transcendent crab. Lge. beaut. flowers. Fr. sm., oblong, yel. Poor qual.	658 A48103	OhW WyC
Hume			Late summer.		NjB
Hume		Wm. Blackburn, Medina, N.Y. 1958	Fr. lge., oblate, 90% dk. dull stripes. Flesh cream, sa., sl. astr. Fair qual. Mid.-Sept.		NyG
Hume		W. H. Perron & Co., Ltd., Montreal, Quebec, Canada	Op. sdlg. of McIntosh.	A52285	WyC
Huntsman		Mo. State about 1850. R. C. Anderson, Kansas City, Mo. 1956	Fr. med.-lge., rnd.-oblate, sl. conical. Skin thick, deep yel. or gr., w. orange blush. Flesh tinged w. yel., rather firm, juicy, mild sa., arom., flavor good. Dec.-April. Tree vig.		NyG
Hutchinson		R. E. Hutchinson, Portland, Oregon 1949			OrC
Huvitus	224610	Finland 1955			MdG
Huvitus	224610	Glenn Dale, Md.		N5796 A57102 AP-H-200 108	NjB, NyG, OrC MnS WyC WaP MiG, IlU, NdM WaW

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Hybride Aus Mlejewo	154160	Germany 1946			MdG
Hyslop					ME, NjB, PaU
Hyslop		Summit Nurs., Geneva, N.Y.			NyG
Hyslop		AES, Ames, Iowa			IoA
Hyslop		Sherman Nurs. Co., Charles City Ia.	Med. size, good qual. crab.	A4986	WyC
Hyslop	157048	Glenn Dale, Md. 1946			MdG
Iamnoie	107213	USSR 1934			MdG
Idagold		AES, Moscow, Idaho	Wagener X Esopus Spitzen- burg, Fr. lge., rnd.-conic., lt. yel.-gr. Flesh semi-firm, nearly white, fair. Late Oct.		NyG, CnS, PaU
Idagold	159662	Idaho 1947			MdG
Idajon		Idaho	Wagener X Jonathan. Ripens 10 days before Jonathan. Dess., qual. good.		CnS, OrC, MiG, NjB, WiS
Idajon		AES, Moscow, Idaho	Pos. on R12740-7A.		InL*
Idared		AES, Moscow, Idaho	Jonathan X Wagener. Fr. med.- lge., rnd.-oblate, mostly striped crim., attrac. Flesh wh., firm, sa., good. Mid-Oct.	AP-H-83 M-752	PaU, MiG, NyG, InL, CnS, NjB, OrC, OhW WaP WaM*

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Idared	157847	Idaho 1947			MdG
Idared		Kimberley Nurs., Kimberley, Idaho	Resembles Wagener.	A5188	WyC
Idared		N. Y. St. Fr. Test. Assoc., Geneva, N.Y.		38	MeO MoC
Idared		Mt. Arbor Nurs., Shenandoah, Iowa 1949			MeO
Ikorocavka Alaja	161814	Italy 1948			MdG
Ikorocavka Alaja	199690	Glenn Dale, Md. 1956	Fr. med.-lge., 1/2 cov. w. crim. blush, attrac. Flesh wh., med. firm, sa., astr., poor qual. Late Aug.		NyG
Ildrod Pigeon	114317	Denmark 1936			MdG
Imperial Rouge	157502	France 1947			MdG
Ingers	114318	Denmark 1936			MdG
Ingram		Fr. Exp. Sta., Mountain Grove, Mo.			NjB
Ingrid Marie		Glenn Dale, Md. 1957			OrC
Ingrid Marie	214079	Denmark 1955			MdG
Iowa Beauty		Sherman Nurs. Co., Charles City, Ia.	May be sdlg. of Golden Russet. Lge. apple. Good qual.	A32836	WyC
Iowa Bluch		Snyder Bros., Center Point, Iowa		A34386	WyC

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Irish Crofton	206027	Glenn Dale, Md.			InL
Irish Peach	104727	England 1934			MdG
Irish Peach	104727	Glenn Dale, Md.			NjB
Irish Peach		G. Bunyard & Co., Maidstone, England 1928	Fr. med., conic. like Delic. Skin yel.-gr. Streaked w. reddish-brown. Flesh gr.-wh. tinged red, crisp, soft, arom., good. Season Aug.		NyG
Isherwood		Snyder Bros., Center Point, Iowa		A34390	WyC
Island Park Hyb. Crab		Wallace Nurs., Ltd., Portage La Prairie, Manitoba, Canada		A48360	WyC
Ivan		John Robertson, Hot Springs, S.D.		A32358	WyC
Ivan			Fr. 1l/lb., lge., orange- red, yel flesh, juicy, tart, blight resist. Mid Sept.		NdM
Ivory's Double Vigor	133097	Finland 1939			MdG
Izo		AES, S.D. Introd. 1918	Fr. 2", lt. red stripes on gr. gnd., inclined to russet. Mild sa., poor qual. Clusters & hangs on well. Tree open growth, blight free, little scab, hardy, prod., vig.		SdC

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Jacques		Boughen Nurs., Manitoba Canada 1953	Fr. edible. Early Sept. Hardy.		AkP
Jacques		Boughen Nurs. Manitoba, Canada	Op. sdlg of Blushed Calville.	A48394	WyC
James Grieve	224455	Glenn Dale, Md.		A5799	WyC
James Grieve	246463	Denmark 1958 (German Origin)	Neumann's Roter.		MdG
James Grieve	246463	Glenn Dale, Md. 1960	Fr. lge., 90% covered w. red blush. Flesh firm, cream, sa., good. Mid-Oct.	69 AP-H-367	NyG MoC WaP
James Grieve, Red	246464	Denmark 1958 (English origin)	Rosamund.		MdG
James Grieve, Red	246464	Glenn Dale, Md.		AP-H-368	WaP
James Kirk	141362	England 1941			MdG
Janet		Shenandoah Nurs., Shenandoah, Iowa		A34184	WyC
Jaune du Desert	161762	France 1948			MdG
Jay Darling		AES, Ames, Ia.			IoA
Jefferis		C & O Nurs. Co., Wenatchee, Wash.		A33325	WyC
Jefferis					PaU
Jefferis			High qual., matures Aug.		IlU
Jefferis		AES, Geneva, N.Y. 1958			OrC

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Jefferis		Stark Bros. Nurs., Louisiana, Mo.	Sdlg. Fr. sm., oblate, red. Flavor good.		OhW
Jefferis		Orig. in Pa. ca. 1840, D. Wilson Nurs., Marshalltown, Ia. 1958	Fr. med. or sm., rnd. oblate, sl. incline to conic. Skin thin, tough, pale yel. w. dull red blush. Flesh yel.- white, firm, fine, crisp, v. juicy, v. good. Sept.- Jan. Tree med. size, mod. vig.		NyG
Jefferis		Lloyd Bennett, East Walla Walla, Wash.		AP-H-95 M-759	WaP WaM*
Jensen's Red Strain	199684	Denmark 1952	Bogo strain of Belle de Boskoop.		MdG
Jensen's Red Strain	199684	Glenn Dale, Md.		AP-H-249	WaP NyG
Jensen's Red Strain	199684	Glenn Dale, Md.	For use as pome fr. virus indicator. No stem pitting virus.		MeO*
Jersey Black		E. P. Gould, Rochester, N. Y. 1900	Fr. med., rnd. Skin dk. red almost black. Flesh yel.- white, tinged w. red, juicy, crisp, sa., arom. Good. Nov.- Feb. Tree mod. vig.		NyG
Jersey Black					ILU, InL
Jersey Red		Bountiful Ridge Nurs., Princess Anne, Md. 1957	Lge., late, culin. apple of Rome type.	21	MoC
Jersey Red			2 yrs. neg. on R12740-7A.	170	InL* VtB

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Jersey Red		AES, N. Brunswick, N.J. Sel. 1947	Callia Beauty X White Winter Pearmain. Fr. lge., cov. w. attrac. blush. Flesh firm, gr.-creamy, sa., sl. astr., fair. Rome type. Late Oct. Color & qual. better than Rome. May be picked later. Good storage. Excel. dess. & culin.	A56421	NjB, KaM, CnS, NyG, PaU, WiS WyC
Jethro		Dominion Exp. Sta., Morden, Manitoba	Wealthy sdlg. Fr. 3 1/2 lb., rnd.-conic., attrac., red stripe, tart, good flavor. Mid-Sept. Lt. blight. Hardy.	A525	NdM WyC
Jewel	148478	Canada 1944	M. baccata X Yellow Transparent.		MdG
Jewel	148478	Glenn Dale, Md.			NjB
Jewell's Sweet		Strand's Nur., Taylor Falls, Minn.		A34723	WyC
Jewell's Winter		Strand's Nurs., Taylor Falls, Minn.		A33666	WyC
Jewett Red		R. C. Anderson, Kansas City, Mo. 1956. Orig. in New Hampshire	Fr. med., rnd.-oblate. Skin thin, tough, nearly smooth, dk. red over yel. Flesh yel., tender, juicy, arom, mild sa., good. Oct.-Feb. Tree slow growing, less than med. size.		NyG
Jewett Red					InL
Jewett Red		AES, Amherst, Mass.			ILU

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Joan		AES, Ames, Iowa	Anisim X Jonathan. Fr. lge., rnd.-conic., cov. w. attrac. stripes. Flesh soft, wh., sa., poor. Ripens late Sept.		IlU, WiS, MiG NyG
Joan		Bountiful Ridge Nurs., Princess Anne, Md.			NjB
Joan		Inter-State Nurs., Hamburg, Iowa			IoA
Joan			Fair dess. qual., good for culin. purposes; subj. to fire-blight.		SdC
Joan		John Robertson, Hot Springs, S.D.	Lge. solid red apple.	A33365	WyC
Johannes Bottner	194106	Germany 1951			MdG
Johannes Bottner	194106	Glenn Dale, Md.		AP-H-358	WaP NyG
John's Crab		Willis Nur., Ottawa, Kansas		A48132	WyC
John Standish		G. Bunyard & Co., Maidstone, England 1925	Fr. rnd., conic., reg. skin cov. w. scarlet., russet dots. Flesh wh., v. hard, juicv. Dess. Jan.		NyG
John Standish	123726	England 1937			MdG
John Waterer	135029	England 1939			MdG
Jonadel		AES, Ames, Iowa		57	IoA, VaB, OrC NoC
Jonadel		R. M. Gilmer, Geneva, N.Y. 1959			NyG

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Jonadel			Jonathan X Delicious. Fr. lge. than Jonathan, more acid than Del., equal in red skin color to Jonathan. Dess. qual. excel. Tends to drop from tree unless treated w. NAA. Tree more resist. to fire blight than Jonathan. Early, annual bearer.		KaM, InL
Jonadel		Interstate Nurs., Hamburg, Iowa		57 N5822	MoC MnS
Jonadel		Mt. Arbor Nurs., Shenandoah, Iowa			NjB
Jonadel		Council Bluff Exp. Fr. Farm, Iowa St. Exp. Sta.		AP-H-189	WaP
Jonadel		Fr. Exp. Sta., Mt. Grove, Mo.			IlU
Jonagram		Fr. Exp. Sta., Mt. Grove, Mo.	Ingram X Jonathan. Fr. med.- lge., rnd., skin thin, tough, smooth, vel., overlaid w. red. Flesh wh. yel., juicy, crisp, tender, sa. Ripens w. Jonathan. Late blooming.	AP-H-236	NyG, IlU, OhW WaP OrC
Jonalicious		Stark Bros. Nur., Louisiana, Mo.	Late keeping, red apple.	58	MoC NyG
Jonas Hannes	125695	Glenn Dale, Md.			InL
Jonathan		Ulster Co., N. Y.			KaM

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Jonathan				169	NjB, CnS, PaU, MiE, OkS, IlU VtB
Jonathan		Maine Apple Tree Pool			MeO
Jonathan		Elwanper & Barry, Rochester, N.Y. 1888	Fr. med., rnd.-conic. to rnd.- ovate. Skin thin, smooth, brt. yel. cov. w. red or purplish. Flesh whitish or yel., firm, crisp, tender, juicy. V. arom., sa., v. good to best. Nov. to Feb. Tree rather sm.		NyG
Jonathan		Milton Nurs., N.Y. 1941			OrC
Jonathan		Alvin Marr, Entiat, Wash.		AP-H-25 M-723	WaP WaM
Jonathan		Inter-State Nurs., Hamburg, Iowa			IoA
Jonathan		Stark Bros. Nurs., & Greening Nurs.	Esopus sdlg. Fr. sm.-med., oblong, deep red. Flavor good.		OhW
Jonathan		Sherman Nurs. Co., Charles City, Ia.		A4985	WyC
<u>Jonathan Sports</u>					
Adams		Stark Bros. Nurs., Louisiana, Mo. 1949	Giant type 2-2-4-4.		NyG
All Red		Bountiful Ridge Nurs., Princess Anne, Md.			MiG
All Red					KaM

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<u>Jonathan Sports</u>					
Anderson		E. Heuser, Hill Top Nurs., Hartford, Mich.	Jonathan type, red w. yel. undercolor.	AP-H-388	WaP NyG
Anderson			Greater proportion of fr. cov. w. red color. Pos. on R12740-7A.		ILU InL*
Anderson		Greening Nurs., Monroe, Mich.			MiG
Big Jon #1		Marshall Bros. Orch., Shepherdstown, W. Va.			PaU
Big Jon #2		Marshall Bros. Orch., Shepherdstown, W. Va.			PaU
Black Jonathan		AES, Ames, Ia.			IoA
Blackjon		C & O Nurs., Wenatchee, Wash.		AP-H-22 M-721 A5356	MiG, PaU WaP WaM* WyC
Blackjon		Introd. commercially 1931	Limb sport on Jonathan tree in Wenatchee, Fr. earlier coloring & more brt. red than Jonathan, which it most nearly resembles.		OkS, KaM, NjB
Blackjon			Pos. on R12740-7A.		InL*
Blackjon		Milton Nurs. Co., Milton, Oregon 1933			NyG
Blackjon		Ox Team Orch., Orondo, Wash.		AP-H-297	WaP

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<u>Jonathan Sports</u>					
Conkle		J. R. Shay, Purdue Univ., Lafayette, Ind. 1953	Giant type: 2-4-4-4.		NyG
Dark Red		Maine Apple Tree Pool	Non-bearing trees.		MeO
Dark Red		Maloney Bros. Nurs., Danville, N.Y.			MiG
Double Red		Waynesboro Nurs., Waynesboro, Va.			MiG
Edwards		AES, Blacksburg, Va. 1958	Giant type: 2-2-4-4.		NyC
Improved		B. C. Zielinski, Lafayette, Oregon 1948			OrC
Improved All Red		Tualatin Valley Nurs., Sherwood, Oregon			MiG, OrC
Improved All Red			Pos. on R12740-7A.		InL*
Jon-a-late		Stark Bros. Nurs., Louisiana, Mo. 1935	Fr. med. 100% red, attrac. Flesh cream, firm. Fair qual. Probably later than Jonathan.		NyG
Jon-a-red		Stark Bros. Nurs., Louisiana, Mo.	Jonathan type, colors earlier & dkr. Def. stripes.	47 AP-H-67 85	MiG, OhW, WiS MoC WaP OrC PaU, IlU, CnS,

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<u>Jonathan Sports</u>					
Jon-a-red		Lyman Harvey, Peshastin, Wash.		AP-H-79 M-749	WaP WaM
Jon-a-red		Wm. Uecher, Peshastin, Wash. Introd. commercially 1934	Fr. earlier coloring than parent; all-over red color.	85	KaM
Jon-a-red					InL
Kingjon		A. W. King, Wenatchee, Wash.	Limb sport on a 50 yr. old Jonathan.	AP-H-58	WaP
Lady		Sondreggers, Beatrice, Neb.		A35605	WyC
Latejon		Stark Bros. Nurs., Louisiana, Mo.	Jonathan sport.		MiG
Mosebar		Mosebar Orch., Yakima, Wash.		AP-H-49	WaP
Red		Bountiful Ridge Nurs., Princess Anne, Md.			OhW
Red					InL
Smith		Dept. Hort., Univ. Ill., Urbana, Ill. 1953			NyG
Solid Red		Hill Top Orch. & Nur., Hartford, Mich.		N5738	MnS
Valnur Double Red		Van Well Nur., Inc. Wenatchee, Wash.		AP-H-296	WaP

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<u>Jonathan Sports</u>					
Welday		AES, Wooster, Ohio 1943	Giant type: 2-2-4-4.		NyG
Woods		AES, Columbia, Mo.	Sdlg. of whole tree sport of Jonathan. Ripens 10 days before Jonathan; otherwise almost identical.	46	MoC
Jongram					InL
Jongrimes		Stark Bros. Nurs., Louisiana, Mo.	Fr. sm. med., rnd. 90% splashed red. Flesh semi- firm, creamy, sa., v. good. Ripens mid.-Sept.	794 N48108	OrC, IlU, NyG NjB MnS MiG, OhW
Jongrimes		Moses Fell Annex Farms, Bedford, Ind.		AP-H-155	WaP
Jongrimes					InL
Jonsib		AES, Brookings, S.D.	Jonathan X Irkutsk. Crab.	A38102	WyC
Jonwin		Calif. Nurs., Niles, Calif.	Jonathan X Baldwin. Fr. lge., rnd.-conic., attrac. striped (90%). Flesh firm, nearly white, sa., fair. Early Oct.	A48104	OhW, NyG, NjB OrC WyC
Jouveaux		France 1948			MdG
Joy Crab		C. A. Hansen Nurs., Brookings, S.D.		A53135	WyC
Joyce		Unknown Canadian source 1941			MeO

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Joyce		Scions from AES, Geneva, N.Y.			NjB
Joyce					SdC, PaU
Joyce		Cent. Exp. Farm, Ottawa, Canada	McIntosh op. Fr. med., almost entirely splashed w. red. Flesh whitish, semi-firm, sa., astr., poor qual. Mid.-Sept.	N38142	MnS
Joyce		E. D. Smith & Sons, Ltd., Winana, Ont., Canada 1927			NyG
Joyce		Hort. Sta., Cheyenne, Wyo.			NdM
Joyce		Greening Nurs. Co., Monroe, Mich.	V. prod., good qual. Hardy.		NyG
Jubilee		Exp. Farm, Summerland, B.C., Canada 1946	McIntosh X Grimes Golden. Fr. sm.-med., rnd.-conic., cov. w. blush. Flesh semi- firm, cream, sa. Fair. Early Oct.		NyG
Jubilee		AES, Geneva, N.Y.			NjB
Jubilee		USDA Wenatchee, Wash. 1948			OrC
Judson		Exp. Sta., Lander, Wyo.		A3495	Wyc
June		1943			OrC
Kalmar Glassapple	104798	Sweden 1934			MdG

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Kamsomolez		N. E. Hansen, Brookings, S.D. 1933	Fr. med., oblong, 1/2 cov. w. dull blush, russet. Flesh firm, pink, acid, astr., poor. Early Oct.		NyG
Kanorkowa	259449	Poland 1959			MdG
Kanpanger		Glenn Dale, Md. 1934	Fr. lge., rnd.-oblate, 90% splash blush. Flesh, creamy, firm, sa., poor. Late Sept.		NyG
Kansas Queen		Fruitland Nur., Augusta, Ga.		A341312	WyC
Kasha		N. E. Hansen, Brookings, S.D. 1945			NyG
Kavlas	104799	Sweden 1934			MdG
Keegan's Crab	206029	Ireland 1953			MdG
Keegan's Crab	203814	Ireland 1953			MdG
Keegan's Crab	203814	Glenn Dale, Md.			InL
Keetosh		Centr. Exp. Farm, Ottawa, Canada		N4949	MnS
Keetosh			Milwaukee X McIntosh.		NjB
Keetosh		Unknown Canadian source 1941			MeO
Kelley's Seedling		Kelly Nur., Fordsville, Ky.	Resembles Golden Delicious. Fr. lge., oblong-conical. Color yel. Flavor good.		OhW

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Kemp	206030	Ireland 1953			MdG
Kemp	206030	Glenn Dale, Md. 1956	Fr. lge., oblate, yel. skin. Flesh firm, creamy, sa., fair. Early Sept.		NyG
Kendall		AES, Geneva, N.Y. Introd. 1932	McIntosh X Zusoff. Fr. med.- lge., rnd.-oblate, cov. w. red attrac. stripes. Flesh whitish-green, semi-firm, sa., fair. Ripens w. McIntosh.	3616 N5864	NyG MeO, PaU, IUU MnS NjB, WiS, OrC
Kendall		R. L. Wodarz, Wyndmere, N.D.	Lge. red apple for fr. prod.		NdF
Kendall		Bountiful Ridge Nur., Princess Anne, Md.	Fr. lge.,oblate, dull dk. red. Flavor fair.		OhW
Kendall		AES, Ames, Iowa			IoA
Kendall		Branch Exp. Sta., Hood River, Ore. 1947			OrC
Kendall					CnS
Kensib		AES, South Dakota	Kentucky Mammoth X Dolgo. Fr. 2", rnd.-oblate, 100% red stripes, v. astr., fair qual., borne singly, hangs on until lvs. drop; annual bearer. Sept.-Oct. Tree dwf., hardy, well shaped. Good breeding material.		SdC, NyG
Kent		Fruit Exp. Sta., Mt. Grove, Mo.	Fr. sm., sl. oblong, 50% crimson stripes. Flesh creamy,sl. acid, not astr. Early Sept.		NyG

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Keo		N. E. Hansen, State College, S.D.	Selfed sdlg. of Amur Crab.	A41732	WyC
Kerr		Boughen Nurs., Valley River, Manitoba, Canada	Dolgo X Haralson. Makes good preserves.	A51265	WyC
Kerr		Dominion Exp. Farm, Manitoba, Canada	10/lb., rnd; attrac. red, tart, juicy, distinctive flavor, clusters badly. Mid-Sept. Stores well. Hardy.	N54437	MnS MdM
Keslage		Wallace Nur., Portage la Prairie, Manitoba, Canada		A33779	WyC
Kidd's Orange Red	247026	Denmark 1958			MdG
Kidd's Orange Red	247026	Glenn Dale, Md.		AP-H-371	WaP
Kidd's Orange Red	247026	Inst. of Plt. Breeding, Wageningen, Holland 1958	Cox Orange X Delicious. Fr. lge., rnd.-conic., 3/4 cov. red w. dull stripes. Unattrac. Skin thick. Flesh, semi-firm, creamy, sa., good. Mid.-Oct. Excel. appear. & flavor. Planted by leading growers in England.		NyG
Kidd's Orange Red	249924	New Zealand 1958			MdG
Kildare					NjB

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Killand		Northern Great Plains Field Sta., Mandan, N.D.	McIntosh X Dolgo. Fr. 5/lb. red stripe, oblate, sa., v. good. Mid.- Sept. V. good storage. Hardy.	11694, 12264, 12325 N5781	NdM NyG, OhW MnS
King					NjB
King		C & O Nur., Wenatchee, Wash.		N5957	MnS
King		Fruitland Nurs., Augusta, Ga.		A4859	WyC
King Acre Pippin		G. Bunyard, Maid- stone, England 1928	Probably Sturmer Pippin X Ribston Pippin. Fr. med., rnd.-conic., vari- able. Gr.-yel. streaked w. dull red. Flesh yel., juicy, sl. arom. Good-v, good dess. Dec.-Jan. Tree med. vig.		NyG
King Cole		D. W. McKenzie, Fr. Res. Orch., Goddard Lane, Maveloch North, New Zealand 1961			NyG
King Cole	249925	New Zealand 1958			MdG
King David					NjB, OkS, CnS, MiE, PaU
King David		Stark Bros. Nurs., Louisiana, Mo.	Fr. med.-lge., rnd., cov. w. dk. blush. Flesh lt. yel., sl. acid, good. Late Oct.		OrC, NyG

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King David		Plumfield Nurs., Fremont, Neb.		A322471	WYC
King Harry	175010	England 1949			MdG
King Luscious		Bountiful Ridge Nurs., Brooks & Olmo List 16. Princess Anne, Md. 1961	ASHS 78 p. 625.		NyG
Kingsap		A. W. King, Wenatchee, Wash.		AP-H-57 M-742	WaP WaM*
Kingston Black	131599	England 1939			MdG
Kingston Black	131599	Glenn Dale, Md.	Cider apple.		NjB, MiG
Kingston Black		Res. Sta., Long Ashton, Bristol, England			NyG
Kingston Black		Centr. Exp. Farm, Ottawa, Canada (from England)	English cider var. Does not require blending.	N424	MnS
Kingston Black					PaU
Kinrei	205459	Japan 1953			MdG
Kinrei	205459	Glenn Dale, Md.	Golden Delicious type. Fr. med., conic., lt. yel. Flesh semi-firm, cream-yel., sa., good. Mid.-Oct.		CnS, NyG
Kitaika		Russia 1934	Fr. gr., fair qual., clusters, v. prod., drops badly. Tree sm., open growth, hardy. Usually some scab.		SdC
Kitaika Anisovaia	107219	USSR 1934			MdG

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Kitaika Cherenkoe		USSR 1934	Fr. gr. w. red blush. Qual. fair-poor. Tree has good branching habit, some winter damage. Both scab & blight observed.		SdC
Kitaika Shafran		USSR	Fr. red, poor qual., drops freely. Tree excel. bearing habit & br. distr. Scab or blight not observed.		SdC
Kitaika Zolotaia		USSR	Tree hardy & vig. w. excel. br. habit. Free of blight & scab.		SdC
Kizil alma #827	30327	Turkestan 1910	Fr. med.-lge., red throughout; sweet, somewhat insipid. Trees not v. lge., withstands drought, alkali & neglect.		MdG
Knobbed Russet	199417	England 1952			MdG
Knobbed Russet	199417	Glenn Dale, Md.		AP-H-243	WaP
Knotted Kernel	131600	Glenn Dale, Md. (Orig. England 1939)			MiG
Knotted Kernel		Centr. Exp. Farm, Ottawa, Canada	English cider apple.	N426	MnS
Kola		AES, S. D.	M. ioensis (Elk River) X M. sylvestris (Oldenburg). Maintained because of ancestry. Fr. 2", oblate, gr., inedible. Tree vig., winter hardy. Tetraploid.	A33389	SdC WyC
Kola	127697	AES, S. D. 1938			MdG

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Kola	127697	Glenn Dale, Md.			NjB
Kola					PaU
Komosomoletz		Russia	Fr. oblong-conic., dull solid red, flesh gr.-white, drops badly, poor qual. Tree tall, willowy. Bark & wood red. Scab generally present.		SdC
Koningszuur	188517	Glenn Dale, Md.	Fr. med.-lge., oblate, 100% dk. red.		NyG
Korei	199527	Japan 1952			MdG
Korei	199527	Glenn Dale, Md.	Golden Delicious X Indo. Fr. med.-lge., conic., yel., sl. blushed. Flesh firm, sa., good. Early Oct. Stores well.	124 AP-H-360	NjB, CnS, NyG VtB WaP
Korei			2 yrs.neg. on R12740-7A.		InL*
Kouleman	188516	Netherlands 1950			MdG
Krasnoznamenko	107227	AES, Orono, Maine			NjB
Krusnosmanevs #56		Thomas Mannseichner, Pfaffenhoffen/llm. Bavaria, Germany		N4865 N4890	MnS
Kulon Kitaika	107229	Glenn Dale, Md.	Shows promise as hardy framework var. Being indexed.		MeO
Kulon Kitaika	107229	AES, Orono, Maine			NjB

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Kulon Kitaika		USSR	Fr. rnd., gr. w. dull red stripes, prod. singly, fair qual. Tree appears coarse, lge. lvs. w. heavy pubescence on lower surface.		SdC, PaU
Kulon Kitaika	259450	Poland 1959			MdG
Kuotesaho	157209	Finland 1947			MdG
Kursh Anis		Stevensen Bros., Morden, Manitoba, Canada		A32787	Wyc
Kutanka	144018	Canada 1942			MdG
Kyokko	199528	Glenn Dale, Md.	Rolls X McIntosh Red. Crossed 1931, fruited 1938. Fr. sm. than McI., color resembles McI. Red. Flesh firm, sa., fair. Early Oct. Tree lge., vig., upright, spreading.		KaM, NyG
Lady		AES, Geneva, N.Y.	V. old European var. used traditionally for Christmas decorations.	N5922	MnS
Lady		AES, Amherst, Mass.			NjB
Lady		B. Walker, Willow Creek, N.Y.	V. old var. Fr. sm.-v. sm. Usually oblate. Skin thick, tough, smooth glossy w. deep red blush. Flesh white, firm, crisp, juicy, arom., mild sa., good-v. good. Season Dec.-May. Tree at first vig., later became dwarfish.		NyG

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Lady					CnS, PaU
Lady		Shoreham, Vt. 1957		159	VtR
Lady		Waynesboro Nur., Waynesboro, Va.	Fr. sm., oblate, striped red. Flavor fair.		OhW
Lady		LeRoy Childs, Hood River, Oregon.		AP-H-211	WaP
Lady		L. V. Zielinski, Salem, Ore. 1954			OrC
Lady Ilgen	215796	Germany 1955			MdG
Lady Sudeley		G. Bunyard, Maidstone, England 1928.	Fr. lge., conic., ribbed. Golden, w. scarlet flush. Flesh yel., soft, juicy, pleasant flavor. Good dess. apple for home gardens only. Aug. Sept.		NyG
Lady Sudeley	123962	Glenn Dale, Md.			InL
Lady Sweet					PaU
Lakeland		AES, Fr. Breeding Farm, Excelsior, Minn.	Op. sdlg. of Malinda, Fr. med.-lge., all red w. dkr. red stripes. Qual. good. Mid-Sept. Tree annual bearer, non-clustering, hardy.	AP-H-113 11060 A40310	WaP NdM MnS, OrC, IlU, WiS, NjB WyC
Lakeland		Andrews Nurs., Faribault, Minn.			NyC, SdC, NdF, MiE
Lamb Abbey Pearmain-A	199418	England 1952			MdG

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Lamb Abbey Pearmain-A	199418	Glenn Dale, Md.	Op. sdlg. of Yellow Newtown. Late keeping, high qual. blushed apple.	AP-H-242 75	WaP MoC NjB
Lamb Abbey Pearmain-B	199419	England 1952			MdG
Lambron	136775	France 1940			MdG
Lambrook Pippin	161839	England 1948			MdG
Lande	162724	France 1948			MdG
Lane's Prince Albert					PaU
Lane's Prince Albert	55223	AES, Urbana, Ill.			NjB
Lane's Prince Albert	55223	Glenn Dale, Md. (Czechoslovakia 1920)			InL
Langley Pippin		G. Bunyard, Maidstone, England 1928	Cox Orange X Mr. Gladstone. Fr. med., conic., sl. irreg. Skin yel., cov. w. crimson blush & red streaks. Flesh cream, juicy, soft, w. distinct flavor. Dess. Early Sept.		NyG
Langley Pippin	128362	England 1938			MdG
Langworthy	161851	England 1948			MdG
Large Yellow Siberian		Ellwanger & Barry, Rochester, N.Y. 1907	Fr. med., rnd.-rnd. ovate. Skin thin, tough, smooth, pale yel. w. shade of red on the sunny side. Flesh yel., v. firm, sa., astr., culin. Sept.-Oct. Tree med. vig.		NyG

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LaSalle		Vineland Exp. Sta., Ontario, Canada 1956	Fr. lge., rnd.-conic., 1/2 dull splashed red. Unattrac. Flesh creamy, sa., good. Mid-Oct.		NyG
Late Strawberry		Wheelock Wilson Nurs., Marshalltown, Iowa	Fr. med., attrac., pale yel. overspread or striped & splashed w. lt. & dk. red. V. good dess. qual. Sept.-Dec. Several pickings required. Unsuitable for commercial growing.		NyG
Latham		U. S. Northern Great Plains Field Sta., Mandan, N.D.		A52385	WyC
Launette	162732	France 1948			MdG
Lavia		AES, Hort. Dept., Piikkio, Finland 1960			NyG
Lawfam					PaU
Lawrentian Snow				N284	MnS
Lawver					PaU
Laxton's Coronation	176818	England 1949			MdG
Laxton's Coronation		Glenn Dale, Md.			SdC
Laxton's Early Crimson	127007	England 1938			MdG
Laxton's Epicure	123744	England 1937			MdG
Laxton's Epicure	123744	Glenn Dale, Md.	Early summer, poor finish. V. good qual.		NjB

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Laxton's Epicure		D. McKenzie, Auckland, New Zealand 1952	Cox Orange X Wealthy. Fr. med., rnd.-conic., 1/2 dull stripes; flesh soft, creamy-yel., juicy. Early Sept.		NyG
Laxton's Exquisite		England			CnS
Laxton's Exquisite	88572	Glenn Dale, Md., (Orig. New Zealand)		A5166	WyC
Laxton's Exquisite		Glenn Dale, Md.		N513	MnS
Laxton's Fortune	127009	Glenn Dale, Md.	Early summer.	AP-H-194 A5167 N514	WaP WyC MnS NjB, OhW, OrC
Laxton's Fortune	127009	England 1938			MdG
Laxton's Fortune	238788	England 1957			MdG
Laxton's Fortune		England			CnS
Laxton's Fortune		Laxton Bros., Bedford, England 1933	Cox Orange X Wealthy. Fr. med., rnd., sl. flattened. Skin yel.-gr., red striped. Flesh creamy-yel., sa., arom. Good dess. Sept.-Oct.		NyG
Laxton's Herald	131463	England 1939			MdG
Laxton's Imperial	127011	England 1938			MdG
Laxton's Leader	127013	England 1938			MdG
Laxton's Pioneer	127015		Late summer.		NjB

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Laxton's Pioneer	127015	England			MdG
Laxton's Pioneer	127015	USPIS, Chico, Calif.		A5168	WyC
Laxton's Pioneer		Glenn Dale, Md.	M. baccata X Tetofsky. Yellow crab.	N515	MnS
Laxton's Pearmain	127014	England 1938			MdG
Laxton's Reward	176819	England 1949			MdG
Laxton's Reward	176819	Glenn Dale, Md.	Fr. sm.-med., oblate, dull red. Flavor fair.		OhW
Laxton's Superb		D. McKenzie, Auckland, New Zealand 1952	Cox Orange X Wyken Pippin. Fr. med., rnd., reg. Skin yel., streaked, grey russet. (Duller than Cox Orange). Flesh wh., sweet, soft, juicy. Pleasant flavor. Nov.-Feb.		NyG
Legana	242012	Tasmania 1957			MdG
Legana	242012	Glenn Dale, Md.	Fr. med., red. Flavor resembles Delic.	67 AP-H-364	MoC WaP
Legan	203226	Tasmania 1952			MdG
Leimgruber #1		Karl Leimgruber, Glenns Ferry, Idaho		AP-H-351	WaP
Leimgruber #2		Karl Leimgruber, Glenns Ferry, Idaho		AP-H-352	WaP
Lemoen	131968	Belgium 1938			MdG

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Lemoen	151407	Netherlands 1947			MdG
Lemon		USSR 1922	Fr. gr.-yel. w. bronze blush. Flesh white, mild, sa., fair qual. Some seasons water core is common. Hangs well after maturity. Tree vig. & hardy.		SdC
Lemon Pippin	157731	England 1947			MdG
Lennoxville	151643	Canada 1945			MdG
Lennoxville	151643	Glenn Dale, Md.			NjB
Leven Alma	131969	Glenn Dale, Md. Belgium 1939	May be syn. of Belle Josephine.		InL
Levering Limbertwig		S. R. Levening, Aramt, Va. 1957	Bud sport of Limbertwig. Giant type: 2-4-4-4.		NyG
Lewis Incomparable	131970	Belgium 1939			MdG
Liestnaya Antonoffka	35636	Siberia 1912	Received as seed.		MdG
Lina		AES, S. D.	Sdlg. of Malinda. Fr. yel., tough skin, fair qual. Inclined to cluster & alternate bearing. Tree hardy, upright.		SdC
Linda					NjB
Linda		E. D. Smith & Son, Canada	Sdlg. Fr. med., oblate to oblong, red. Flavor fair to good.		OhW

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Linda		Seager Wheeler, Rosthern, Sask, Canada		A38773	WyC
Linda Sweet		John Robertson, Hot Springs, S. D.		A34523	WyC
Linda Sweet		AES, S. Dak.	Malinda X Sweet Russet. Fr. 1 1/2", oblong-conic., yel.w. much russet. Flesh mild, sa., sweet. Fr. hangs v. well, clusters. Tree hardy, inclined to overbear. Limited value.		SdC
Lindo De Insua - 6	183955	Portugal 1949			MdG
Linton		Dominion Exp. Sta., Morden, Manitoba, Canada	Fr. 3/lb., oblong, red stripe, tart, sa., good flavor. Early Sept. Blight suscept. Hardy.	9507	NdM
Lipton					PaU
Liset			M. purpurea var. Lemoinei X Sieboldii. Orn. crab.		IlU
Liveland		Shenandoah Nur. Co., Shenandoah, Ia.	Excel. Fruit.	A32364	WyC
Liveland Raspberry		Russian var., v. old R. C. Anderson, Kansas City, Mo. 1956	Fr. med.-lge., waxen white striped & shaded w. lt. crimson. Flesh white, stained w. red, fine, mildly sa., Aug. No value.		NyG
Liveland Raspberry		1944			OrC

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Loachapoka		P. F. Bersinger, Gray Stone Nurs., Loachapoka, Ala. 1956			NyG
Lobo		E. D. Smith & Sons, Ltd., Winena, Ont., Canada. 1927	Fr. med.-lge, rnd., some- what flattened. Skin pale yel. w. crimson flush.		NyG
Lobo					NjB, PaU, CnS, WiS
Lobo		AES, N.J.			ILU
Lobo	143180	Canada 1941			MdG
Lobo		John Robertson, Hot Springs, S.D.	Sdlg. of McIntosh. Resembles McI. 2 wks. earlier.	A34521	WyC
Lodi		Orig. at AES, Geneva, N.Y. Introd. 1924	Montgomery X Yellow Trans- parent. Fr. med.-lge., rnd. sl. conic.; skin pale gr. or wh. Flesh wh., acid, juicy, sl. soft. Good culin. Early Aug. Tree yel. transp. type but lge.	2581	NyG
Lodi		AES, Geneva, N.Y.	Early fruiting, winter hardy.	AP-H-88 M-754	MeO WaP WaM ILU, WiS, WiM, MiG
Lodi		Bountiful Ridge Nur., Princess Anne, Md.		32	MoC NjB, OhW
Lodi		Brookdale-Kingsway, Ltd., Bowmanville, Ont., Canada 1960		135	VtB

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Lodi		Kelly Bros., Dansville, N. Y.			PaU
Lodi		Inter-State Nurs., Hamburg, Iowa			IoA
Lodi		Branch Exp. Sta., Hood River, Ore.			OrC
Lodi		Greening Nur. Co., Monroe, Mich.		A34307	WyC
Lodi		Commercial nursery.			KaM
Lodi					OkS, CnS, InL
Lodi Dwarf		Shenandoah Nurs., Shenandoah, Ia.		A5151	WyC
Longsdall		Centr. Exp. Farm, Ottawa, Canada		N4947	MnS
Long Ashton E-7, G-6, G-7, G-8					PaU
Long Ashton		Geneva, N.Y.	Clone of M. platycarpa. Indicator for apple viruses.		MeO
Long Bois de Neubourg	136360	France 1940			MdG
Longfield		Station	5/lb., rnd., red & yel., tart, fair, late Sept. Blight suscept. Hardy.	10480	NdM
Longfield		Jewell Nur. Co., Lake City, Minn. Orig. Russia	Sm.-med. apple.	A33562	WyC

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Longdale Crab	148416	N. D. 1944	Mottled orange-red.		MdG
Lord Grosvenor	104730	Glenn Dale, Md.			InL
Lord Hindlip	123746	England 1937			MdG
Lord Kitchener		M. Sharpe, Vacaville, Calif, 1933	Prob. sdlg. of Peasgood's Nonsuch. Fr. med.-lge., rndish., somewhat flat. Skin gr.-yel. w. dull red blush. Flesh yel., juicy, sa. Good culin. Oct.- Feb. Tree strong growing.		NyG
Lord Lambourne	123747	England 1937			MdG
Lord Lambourne	203815	Ireland 1953			MdG
Lord Lambourne	205048	England 1953			MdG
Lord Lambourne	205048	Glenn Dale, Md.	Free of "rubbery wood" virus, used as indicator.	AP-H-241	NjB
				12293	WaP
			E. M. (East Malling) 422.	AP-H-129	NdM
				M-792	WaP
					WaM
Lord Lambourne	205049	England 1953			MdG
Lord Lambourne	205049	Glenn Dale, Md.	E. M. (East Malling) 470.	AP-H-130	WaP
				240	
Lord Lambourne	238789	England 1957			MdG
Lord Lambourne		Posnette	Pos. on R12740-7A.		InL*
Lord Lambourne		Glenn Dale, Md.		AP-H-108	WaP
				M-760	WaM

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Lords L.		Snyder Bros., Center Point, Ia.	Wealthy.	A34388	WyC
Lord Seedling		J. S. Lord, Lindon, N. Y. 1832	Fr. lge., rnd.-conic., lt. yel.-gr. Flesh soft, nearly wh., sa. Good. Late Sept.		NyG
Lord Suffield	102549	Glenn Dale, Md. (orig. from Italy 1933)			InL
Lorna Doone	161840	England 1948			MdG
Lorza		Kornik Inst., Dept. of Pomology, Kornik, Poland. 1936.	Fr. lge., rnd.-conic., rough, 100% striped, Flesh wh.-cream, firm, sl. acid. Fair qual. Mid. Oct.		NyG
Louise	162970	Canada 1948			MdG
Louise	128407	M. B. Davis, Ottawa, Ontario, Canada		A38680	WyC
Lovejoy Cortland		R. H. Lovejoy, Springvale, Me. 1957	Cortland. Giant type 2-4-4-4.		NyG
Lowland Raspberry	143181	Canada 1941			MdG
Lowry		Waynesboro Nurs., Waynesboro, Va.	Sdlg. Fr. sm.-med., oblate, dull dk. red. Flavor fair, sweetish.		OhW
Lowry		Harrison Nurs., Berlin, Md.		A48151	WyC
Lowry					PaU

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Lubsk Queen		Station	Fr. 6/lb, oblate, peach w. pink cheek, fair. Mid.Aug. Blight suscept. Hardy.	10663	NdM
Lubsk Queen		AES, Brookings, S.D.	Russian origin.	A33386	WyC
Lunowerapfel	132011	Germany 1939			MdG
Lusoff		Hort. Field Sta., Cheyenne, Wyo. 1956	Parent of Kendall. Fr. attrac., dull scurf skin, flesh gr.-wh. Qual poor. Mid.-Oct. No comm. value.		NyG
Lyman Prolific	148403	Glenn Dale, Md.			NjB, MiG
Lyman Prolific		Strands Nur., Taylors Falls, Minn.		A33665	WyC
Lyman Prolific		A.P. Stevenson, Dunstan, Manitoba, Canada	Fr. 12/lb., red, rnd.-oblate, tart, astr.; jelly crab. Mid.- Sept. Blight resist. Hardy.		NdM
Lyman Prolific		Glenn Dale, Md.	Fr. sm., conic., 90% stripes, unattrac. Flesh sa., sl. astr., fair. Early Sept.		NyG
Lyons Seedling		Chance sdlg. found in the Lyons farmyard near Ivanhoe, Va.	Fr. highly colored, fine finish & attrac; qual. good. Tree less suscept. to disease infection than most comm. vars.		VaB
Lyons		AES, Blacksburg, Va. 1959			NyG
Mabel		Boughen Nurs., Valley River, Manitoba, Canada		A51269	WyC

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Macoun		AES, Geneva, N.Y. (introd. 1923)	McIntosh X Jersey Black. Fr. med.-lge., uniform, round.-conic., cov. w. crimson blush. Flesh white, juicy, arom., sa. High dess. qual., not for processing. Dec.- Feb. Tree med. size & vig.	547 105	NyG VtB IlU, MeO, OrC
Macoun		Bountiful Ridge Nur., Princess Anne, Md.	McIntosh X Jersey Black. Dk. red, high qual., fall dess. apple. Late Blossom.	16 B33870	MoC MdG OhW
Macoun			2 yrs. neg. on R-12740-7A.		CnS, NjB, OkS, PaU, WiS, InL*
Macoun		Elliott Degman, Wenatchee, Wash.		AP-H-343	WaP
Macoun		AES, Ames, Iowa			IoA
Macoun		Maloney Bros., Dansville, N.Y.		A341305	WyC
Macross	143183	Canada 1941			MdG
Macross					WiS
Macy		Elmer M. Reeves, Waverly, Ia.	N.W. Greenings X Wealthy. Orig. at Ames by H. L. Lantz.	A32972	WyC
Maga		AES, College Station, S.D.	McIntosh X Virginia Crab. Fr. yel. w. dull red stripes. Qual. poor. Tree hardy & prod.		SdC
Magnus	144020	Canada 1942			MdG
Maiden Blush					PaU

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Maiden Blush		Benton County Nur., Rogers, Ark.	Sdlg. Fr. med., oblate, gr. to yel. w. some blushed cheeks. Fair-good flavor.		OhW
Maiden Blush		Inter-State Nurs., Hamburg, Iowa			IoA
Maidstone Favorite		G. Burnyard & Co., Maidstone, England	Sdlg. of Emp. Alexander. Fr. med.-sm., rnd.-flat. Skin yel. w. red flush & dkr. streaks. Flesh white, firm, juicy. Early Aug.		NyG
Maishia	189663	Glenn Dale, Md.	V. late blooming. Yugoslavian var. Early summer, cider apple.		NjB
Major	150649	England 1945			MdG
Major	150649	Glenn Dale, Md.	Fr. sm., conic., 1/3 striped, flesh sweet, sl. astr. Early Sept.		NyG, NjB, MiG
Makamik	148493	Canada 1944	Sdlg. of M. sylvestris var. Niedzwetzkyana.		MdG
Malinda			Fr. med. size, yel. w. blush. Qual. mediocre. Winter. Tree v. hardy. Maternal parent of 5 Minn. vars.		MnS
Malinda		Hort. Field Sta., Cheyenne, Wyo.	Fr. med.-lge., sharply conic. Skin smooth, yel. w. dull red blush. Flesh yel.-white, firm, mildly sa., juicy, fair. Local value. Late winter. Tree med. vig.		NyG

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Malinda		Jewell Nur. Co., Long Lake, Minn.		A33563	WyC
Maman Lily	131110	France 1938			MdG
Manan	151258	Canada 1945			MdG
Manan		AES, Manitoba, Canada	Sdlg. of Antonovka. Fr. med.-lge., rnd.-conic., red stripe, mellow. Good. Late Sept. Blight suscept.	A34673 10697	PaU WyC NdM
Manchu crabapple		AES, S. D.	Fr. v. sm., valueless. Blossom before all other apples. Tree strong, vig., open, wide angle scaffold. Root system mass of lateral roots. No blight or scab. Sdls. v. uniform. As root- stock semi-dwfs. most vars. Wood v. hard makes graft. difficult. Not compat. w. all vars. Needs more study.		SdC
Manche Rouge	162716	France 1948			MdG
Manito	148494	Canada 1944			MdG
Manito	148494	Glenn Dale, Md.	Cider apple.		NjB
Manitoba					ILU
Mann		AES, Ithaca, N.Y. 1956			NyG
Mann's Giant		Inter-State Nurs., Hamburg, Ia.			IoA

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Mannington Pearmain	141240	England 1941			MdG
Manred		Dominion Exp. Sta., Manitoba, Canada	Anisim. 7/lb., rnd., pink-red, tart, fairly good. Early Sept. Blight suscept.	9823	NdM
Mantet		Hort. Expt. Sta., Vineland, Canada 1959	Tetofsky X open. Fr. med.-lge., 60% stripe. Flesh lt. cream, med. firm, crisp, sa. Qual. good. Late Aug. Blight suscept.	9498 N34130 A32813	NyG NdM MnS WyC
Mantet		Andrews Nurs., Faribault, Minn.	Early summer, v. hardy.	11359	NdM NjB, MiG
Mantet		Oscar H. Will Co., Bismarck, N.D.	Sdlg. of Tetofsky. Fr. yel., blushed red. Good qual. Summer.		NdF
Mantet					PaU, WiS
Mantet		Inter-State Nurs., Hamburg, Iowa			IoA
Manton		Dominion Exp. Sta., Manitoba, Canada	Antonovka sdlg. Fr. 3/lb., oblate, red stripe, sa., good. Late Sept. Winter apple. Sev. blight.	9497 A32810	NdM WyC
Manton	113830	Canada 1936			MdG
Mantovano	102425	Glenn Dale, Md.	Pos. on R12740-7A.		InL*
Ma Pomme	126498	France 1948			MdG
Marabot	162733	France 1948			MdG
Marechal	148362	AES, Geneva, N.Y. 1944			MdG

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Marechal	148362	Glenn Dale, Md.	Fr. sm., v. astr. Early Oct. Cider only.		NjB, NyG, MiG
Marin Onfroy	173982	France 1949			MdG
Marin Onfroy	173982	Glenn Dale, Md.	Cider apple.		NjB, NyG
Martha		Fr. Breeding Farm, Excelsor, Minn. 1888	Fr. med.-lge., rnd.-oblate. Skin thin, tough, smooth, pale yel., all cov. w. attrac. bright red. Flesh yel., firm, coarse, crisp, juicy, sa. Good. Sept.-Nov. Tree med. size & vig.		NyG
Martha		Dominion Exp. Farm, Manitoba, Canada	Lge. crab.	A341243	WyC
Martha		Cheyenne Hort. Sta., Cheyenne, Wyo.	10/lb., lt. red, oblate, calyx drops, tart, juicy, Blight resist. Early Sept. Hardy.		NdM
Martha Dolgo		Bismarck, N.D.	Martha X Dolgo. Fr. 12/lb., attrac. orange red, oblong-conic., firm, crisp, tart. A lge. Dolgo, upright growth. Blight suscept. Late Aug. Hardy.		NdM, MdG
Martha Dolgo		Northwest Nur. Co., Valley City, N.D.		A48233	WyC
Martin Tessard	162734	France 1948			MdG
Master's Jersey	161841	Glenn Dale, Md.	Cider apple.		NjB

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Mattamuskeet		Swan Quarter, N.C.	Fr. v. firm, unattrac., fair qual., late maturing. Reported v. resist. to scab, fire blight, black rot, etc.		VaB
Matthews Crab	157557	Mass. 1947			MdG
Maud		Inter-State Nurs., Hamburg, Iowa			IoA
Maud		AES, Ames, Iowa	McIntosh X Longfield.	A3187	WyC
Maunerbe	162713	France 1948			MdG
Mavis					NjB
Max's Frost Proof		Mineral, Va. 1947			OrC
Max Tric		AES, S.D. 1942	Iowa Wild Crab X M. baccata. Fr. 1/2", oblate, bronze red.		SdC
May Queen	123749	England 1937			MdG
Mazankova Malinove #5	55216	Czechoslovakia 1920			MdG
M. B. Twigg		Willis Nur. Co., Ottawa, Kansas	Prob. sdlg. of Winesap.	A33165	WyC
McClintock Grimes Golden		AES, Lafayette, Ind. 1948	Grimes Golden sport. Giant type: 2-2-4-4.		NyG
McIntosh		Inter-State Nur., Hamburg, Iowa	Fameuse sdlg. ca. 1870 Ontario, Canada. Fr. med.- lge., unif., rnd.-oblate, skin thin, purplish red w. bloom. Flesh tender, fine, v. juicy, arom. Excel. dess. Tree vig., hardy.		IoA

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McIntosh				163	NjB, MiE, PaU, WiS, IUU, CnS VtB
McIntosh		New Hampshire	Indexed for stem pitting virus.		MeO*
McIntosh		St. Nur. & Seed Co., Helena, Mont.			WyC
McIntosh		Summerland, B. C.		AP-H-125 M-768	WaP WaM
McIntosh		Greening Nur., Monroe, Mich.			OhW
McIntosh		Smith & Kiernan, St. Catherine, Ont.			NyG
McIntosh		Manten's Nur., White Rock, B.C., Canada		142	VtB
McIntosh		Andrews Nur., Faribault, Minn.			SdC
McIntosh		Stark Bros. Nur., Louisiana, Mo.		A5178	WyC
<u>McIntosh Sports</u>					
Anstey Red		AES, Summerland, B.C. 1957			OrC
Blackmack		C & O Nur., Wenatchee, Wash.	McIntosh type but colors earlier & dkr. Blight suscept. as young tree.	AP-H-82 M751 11601 A33319	NyC, MiG, OhW WaP WaM* NdM WyC
			156		

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<u>McIntosh Sports</u>					
Blackmack			2 yrs. neg. on R12740-7A.		InL*, NjB
Boller		Arthur Boller, Sodus, N.Y. 1956	Bud mut. of McIntosh. More highly colored.		NyG
Boller		N. Y. State Fr. Test. Assoc., Geneva, N.Y.		N5854 AP-H-384	MnS WaP MiG, MeO, PaU
Boller Red		Summerland Res. Sta., Summerland, B. C.		AP-H-373	WaP
Brown		Arthur Dest, Allison, N.Y. 1958	Red sport of McIntosh. Striped type, dk. red, speckled.		NyG
Cornell		N. Y. State Fr. Test. Assoc., Geneva, N.Y.	McIntosh type. Solid red color. Limb sport on a McIntosh.	AP-H-383 N5855 130	NyG, MiG, MeO WaP MnS VtB PaU
Cornwall		F. W. Cornwall, Pultneyville, N.Y.	McIntosh Giant type. 2-2-2-4.		NyG
Cuillier Spurred		Albert Cuillier, Yakima, Wash.		AP-H-276	WaP
Double Red		Hill Top Orch. & Nur., Hartford, Wash.		N5742	MnS
Double Red			2 vrs. neg. on R12740-7A.		InL*
Double Red		Stark Bros., 1948 Louisiana, Mo.			OrC

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<u>McIntosh Sports</u>					
Early		AES, Geneva, N.Y. Introd. 1923	Yellow Transp. X McI. Resembles McI. in appear. but less arom. & more sprightly. Tree vig., prod. but alternate cropper. Ripens about one wk. after Melba, V. hardy. Incompatible w. Cortland.	1022	NyG OrC, WiS
Early					PaU, OkS, NjB, MeO, SdC, CnS
Early		O. T. Clawson, Lakeside, Wash.		AP-H-75 AP-H-138	WaP
Early		Aldo Faletto, Chelan, Wash.		AP-H-399	WaP
Early		AES, Ames, Iowa			IoA
Early		Kelly Bros. Nur., Dansville, N.Y. 1952		149	VtB
Early		Manten's Nur., White Rock, B. C., Can. 1953		101	VtB
Early		Stark Bros. Nur., Louisiana, Mo.		A33158	WyC
Early Red	142457	Canada 1941			MdG
Farley		Greening Nur. Co., Monroe, Mich.	Propagation restricted. Red sport of McI. Color not as good as Rogers McI. or Cornell McI.		NyG, MiG
Farley			Excel. solid red color.		I1U

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<u>McIntosh Sports</u>					
Geneva		Disc. at AES, Geneva, N. Y. Introd. 1959	Fine solid bt. red blush, sport of McI. V. symmetrical & more brill. color than other McI. sports.	131 AP-H-385	NyG VtB WaP
Greenpeak		T. W. Lasanska, Dorset, Vt. 1952	Giant type: 2-2-4-4.		NyG
Hinchman		H. C. Hinchman, Johnstown, Pa. 1928	Stripe type, little less than Rogers McI. Late Sept.		NyG
Improved All Red	176186	Glenn Dale, Md.	Fr. sim. to Boller McI. but not so attrac. Late Sept.	N5118	NyG, MiG, OhW MnS
Johnson		Roy Bender, Co. Agr. Agent, Westport, N.Y.	Giant type: 2-4-4-4.		NyG
Kimball Giant	237701	Glenn Dale, Md.		N5978	MnS
Kyess		Stark Bros. Nur., Louisiana, Mo. 1958			NyG
Lackey		Greening Nur., Monroe, Mich.			MiG
Loomis Sel.		Addison County, Va. 1955		178	VtB
McIntosh #580		Greening Nur., Monroe, Mich.			MiG
McIntosh 3609					PaU
Morse Late		George A. Morse, Williamson, N.Y. 1937	Fr. lge., rnd. 100% striped. Flesh cream, soft, acid, fair. Early Oct. Not McI. type. No comm. value.		NyG

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<u>McIntosh Sports</u>					
Nured McIntosh		C & O Nur., Wenatchee, Wash.		N5955	MnS PaU
Red McIntosh		Harrison Nur. & Greening Nur.	A redder McI.		OhW
Red		LeRoy Childs, Hood River, Ore.		AP-H-209	WaP
Red					NjB
Red		Fred Frazier, White Salmon, Wash.		AP-H-225	WaP
Red		Summerland Res Sta., Summerland, B. C.		AP-H-267	WaP
Robinson		Anderson & Robinson, Oswego, N. Y. 1950	Giant type: 2-2-4-4.		NyG
Rogers		T. C. Rogers, Dans- ville, N.Y. 1925	Red sport of McI., blush type, solid color.		NyG
Rogers		N. Y. State Fr. Test. Assoc., Geneva, N.Y.		AP-H-386	WaP PaU
Rogers		Maloney Bros. Nur., Dansville, N. Y.			MiG
Rogers New York		Summerland Res. Sta., Summerland, B. C.		AP-H-347 AP-H-375	WaP
Rogers Red					MeO

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<u>McIntosh Sports</u>					
Rogers Red			2 yrs. neg. on R12740-7A.		InL*
Ryan		James B. Ryan, Wapato, Wash.		AP-H-169	WaP
Striped		Isaac Rogers, Dansville, N. Y. 1925	Striped sport of McI., orig. blushed type. No comm. value. Of value only in comparison studies.		NyG
Summerland		Dominion AES, Summer- land, B. C., Canada		AP-H-374	PaU WaP
Sweet					NjB
Sweet		N. Y. Fr. State Test Assoc., Geneva, N.Y. Orig. N. Y. Introd. 1922	Lawyer X McI. Sim. to McI. in appear., but sweet rather than acid. Same season as McI. Home use only.	505 A35390	NyG WyC OrC
McLean		Strands Nur., Taylor Falls, Minn.		A35685	WyC
McMahan		Sherman Nur. Co., Charles City Ia.	Sdkg of Alexander. Lge. to v. lge. fr.	A32837	WyC
McNicholas Greening		C. G. Small, Lock- port, N. Y. 1960			NyG
McPrince (crab)		Glenorchie Farm, Manitoba, Canada		A38742	WyC
McPrince		Cheyenne Hort. Sta., Cheyenne, Wyo.			NdM

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McQuarrie Seedling		Riverside Orch., Riverside, Wash.		AP-H-40	WaP
Meach	255458	England 1959			MdG
Mecca	148480	Canada 1944	M. Baccata X Simbirsk No. 9.		MdG
Mecca	148480	Glenn Dale, Md.	Shows promise as hardy frame- work var.		MeO
Mecca		Glenorchie Farm, Manitoba, Canada		A33799	WyC
Mecca-Dolgo			Hardy body stock.	81	MoC
Medaille d'Or	161842	England 1948			MdG
Medaille d'Or	161842	Glenn Dale, Md.	V. late blooming, cider apple.		NjB
Medaille d'Or	127315	Glenn Dale, Md.			MiG
Medaille d'Or		Glenn Dale, Md. 1946	Fr. sm., yel.-gr. Flesh cream, semi-firm, v. astr. Late Sept.		NyG
Medaille d'Or	158735	France 1947			MdG
Medina		Orig. at AES, Geneva, N. Y., Introd. 1922	Deacon Jones X Delicious. Fr. med.-lge., conic., 1/2 lt. red. Flesh firm, sweet, good. Late Oct.	2082 A48136	NyG WyC NjB, OrC, PaU, OkS
Megumi	199529	Glenn Dale, Md.	Ralls X Jonathan. Fr. lger. than parents, oblong, yel.- gr. w. red stripe, Flesh sl. soft. Mid.-Oct. Tree med. size & growth, upright spreading, early bearer.		KaM, NyG, CnS

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Meister's			Pos. on R12740-7A.		InL*
Melba		Cent. Exp. Farms, Ottawa, Canada 1923	Sdlg. of McIntosh. Fr. med.- lge., rnd.-conical. Skin pale yel., washed w. carmine. Flesh white, crisp, tender, juicy, sa. Qual. good. Late Aug.-Sept.		NyG
Melba					NjB, PaU, MiE, ILU, WiS
Melba		Station		9789, 9975 12040	NdM
Melba		Greening Nur., Monroe, Mich.			OhW
Melba		N. Y. State Fr. Test Assoc., 1948			OrC
Melba		Umatilla, Ore. Exp. Sta. Grayham 1947			OrC
Melba		Fr. Breeding Farm, Excelsior, Minn.		A32658	WyC
<u>Melba Sports</u>					
Canadian Red					CnS
Ottawa Red					NyG
Pate		A. W. Pate, Brantford, Ont., Canada 1939	Melba type. Fr. more highly colored, flesh firmer, bruises less easily.		NyG
Red		Scions From J. Q. Platts, Beamsville, & A. W. Pate, Brant- ford, Ont.	A redder Melba. 163		NjB

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<u>Melba Sports</u>					
Red		Maine Apple Tree Pool			MeO
Red		Cheyenne Hort. Field Sta., Cheyenne, Wyo.			NdM
Red		N.Y. State Fr. Test Assoc., Geneva, N. Y. 1957		42	MoC
Red		Mantoulin Island, Canada			OhW
Red		Inter-State Nur., Hamburg, Iowa			WiS
Red					IlU, CnS, WiS, WiM
Red Melba (Platt strain)		AES, Geneva, N. Y. 1954			OrC
Melrose		AES, Wooster, Ohio	Jonathan X Delicious. Fr. med.-lge., rnd.-oblate, 100% stripes, attrac. Flesh yel.-cream, sa., sl. astr. Good dess. Mid.-Oct. Late keeping,	N4518 36 138 AP-H-149	NyG, WiS, MeO MnS MoC VtB WiM, OhW, OrC WaP
Melrose			2 yrs. neg. on R12740-7A.		NjB, PaU, InL*
Melrose		AES, Orono, Maine			MeO
Melrose		Bountiful Ridge Nur., Princess Anne, Md.		A53136	MiG Wyc

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Menoman		Eau Claire Nur. Co., Menominee, Wis.		N29135	MnS
Mercer		Wild sdlg. found in Mercer Co., Ill. ca. 1900	M. icensis hyb. (?). Fr. 2", oblate, yel., inedible. Tree excel. branching habit. Possible use as frame for topworking.		SdC
Mercer	127700	South Dakota 1938		A33391	MdG WyC
Mercer	127700	Glenn Dale, Md.		21	PaU, NjB, VtB
Mercer	150690	Iowa 1945			MdG
Mercer		AES, Urbana, Ill.			IlU
Merton Beauty	205460	England 1953			MdG
Merton Beauty	205460	Glenn Dale, Md.	Ellison's Orange X Cox Orange. AP-H-246 Fr. med., skin brt. crimson, arom., Sept.-Oct. Good qual.		WaP NyG, NjB
Merton Beauty	231284	Glenn Dale, Md.			InL
Merton Charm	231285	Glenn Dale, Md.			InL
Merton Delight	205461	England 1953			MdG
Merton Delight	205461	Glenn Dale, Md.	Fr. med.-lge., rnd.-oblate, 1/4 orange blush. Flesh firm, creamy, sa., fair. Late Sept.		NyG, InL
Merton Pippin	205462	England 1953			MdG

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Merton Pippin	205462	Glenn Dale, Md. 1956	Fr. med.-lge, oblate, 90% splashed stripes. Flesh semi-firm, creamy, sa. Qual. fair. Late Oct.		NyG
Merton Prolific	199007	Glenn Dale, Md. 1954			NyG
Merton Prolific	224081	England 1955			MdG
Merton Prolific	224081	Glenn Dale, Md.	N. W. Greening X Cox Orange. Fr. med., rnd.-oblate, 100% striped. Flesh yel.-cream, semi-firm, sl. acid, fair. Mid.-Oct.	A5790 AP-H-196	OrC WyC WaP
Merton Russet	199008	England 1952			MdG
Merton Russet	199008	Glenn Dale, Md.	Sturmer Pippin X Cox Orange. Fr. med.-lge., oblate, 3/4 blushed, sl. russet. Flesh firm, cream, juicy, sa., good. Mid.-Oct.		NyG, CnS
Merton Worcester	199009	Glenn Dale, Md. 1954	Cox Orange X Worcester Pearmain. Fr. med.-lge., 3/4 red blush, sl. dull. Flesh cream, sa. Fair qual. Mid.-Sept.		NyG
Merton Worcester	224082	England 1955			MdG
Merton Worcester	224082	Glenn Dale, Md.		A5791 AP-H-203	WyC WaP
Merton Worcester	231287	Glenn Dale, Md.			InL
Merville de Vitry	132471	France 1939			MdG
Meski	97330	Africa 1932			MdG

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Messire Jacques	162505	France 1948			MdG
Messire Jacques	162505	Glenn Dale, Md.			NjB
Mettais	162717	France 1948			MdG
Mettais	162717	Glenn Dale, Md.			NjB
Mettais	173983	France 1949			MdG
Mettais	173983	Glenn Dale, Md.		23	MoC
Metzher		Moxee Quarant. Sta. (Orig. from Med. Plt. Gdn., Univ. of Wash.)		AP-H-157	WaP
Miami		W. N. Scharff's Sons, New Carlisle, Ohio	Stark bud sport. Fr. med., oblate to oblong, med. red; flavor, fair. Late keeping.		NyG, OhW
Miami		AES, Wooster, Ohio		AP-H-150	WaP
Michael Henry Pippin		Hopedale Nur. Co., Hopedale, Ill. 1926	Fr. sm., conic., gr. w. some orange blush. Flesh cream, sweet, good. Late Oct.		NyG
Michelin	136261	France 1940			MdG
Michelin	135487	France 1940			MdG
Michurin Bessiemianka	259451	Poland 1959			MdG
Middleton Fameuse		I. Middleton, W. Webster, N. Y. 1933	Fameuse. Ident. w. Fameuse, except more red color. More attrac. than reg. Fameuse. No. comm. value in N. Y.		NyG

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Midland		H. H. Dow, Midland, Mich. 1931	Fr. med., 90% striped. Flesh soft, white, sa., fair. Mid.- Sept.		NyG
Midtun		J. L. Borne, Ullens- vang, Norway. 1924.	Fr. lge., cov. w. red stripes. Attrac. Flesh soft, white, sl. acid, poor. Early Oct.		NyG
Mill		Norman Onderdonk, Geneva, N. Y. 1942	Fr. med.-sm., rnd.-conic., 90% stripe. Flesh yel.-cream, soft, sl. acid. Early Oct.		NyG
Miller		John Miller, Oswego, Ore. 1948			OrC
Miller's Giant		Belmont County, Exp. Sta., Clairsville, Ohio	Fr. v. lge., oblong, blushed gr.-yel. Flavor fair.		OhW
Millet		Oscar H. Will & Co., Bismarck, N. Dak.	Fr. 1 1/4", red. Erect grower, about 10' ht. & spread.	11489 A52193	NdM WyC
Millicent A. Barnes		England 1938			MdG
Milton		Orig. at Geneva, N.Y. Introd. 1923	Yel. Transp. X McI. Fr. attrac. Characteristic McI. taste & aroma. Season after early McI. & preceding McI. by a month or 6 wks. Most nearly resembles McI.	1040	NyG
Milton		N. Y. State Fr. Test Assoc., Geneva, N.Y.		106	MeO, KaM, PaU VtB
Milton		Maloney Bros., Dansville, N. Y.		A34727	WyC
Milton					WiS, CnS, OkS, IoA

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Milwaukee		Shenandoah Nur. Co., Shenandoah, Ia.	Sdlg. of Oldenberg.	A32367	WyC
Milwaukee		Hort. Field Sta., Cheyenne, Wyo. 1956			NyG
Mingan	244724	Spain 1958			MdG
Minister Von Hammerstein	131007	Germany 1938			MdG
Minjon	200377	Minnesota 1952			MdG
Minjon		AES, Fr. Breed. Farm, Excelsior, Minn. (Minn. #700)	Wealthy X Jonathan (?). Fr. closely resembles Jonathan. Med., solid bt. dk. red, flesh usually stained red. Shorter season than Jonathan. Qual. good, culin. Mid.-Oct. Hardy, prod., tends to over- bear.	AP-H-114 A36656	WaP WyC MnS, NjB, WiS, OrC, MiE, NyG
Minjon		Farmers Seed & Nur. Co., Fairbault, Minn. 1960		50	MoC
Minjon					OkS, InL, IlU
Minjon		AES, Ames, Iowa			IoA
Minjon		Andrews Nur., Fairbault, Minn.			SdC, OhW, MiG
Minnehaha		Cheyenne Hort. Field Sta., Cheyenne, Wyo.	Malinda op. sdlg., 3/lb., oblate, yel.-pink cheeks, sa., good. Mid.-Sept. Blight suscept. Hardy.	11605	NdM

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Minnehaha		Fr. Breed. Farm, Excelsior, Minn. 1924	Fr. variable in size, 100% red stripes, Flesh soft, creamy, sa. Fair, Ripens unevenly Sept.-Oct.		NyG
Minnehah		Northwest Nur. Co., Valley City, N.D.		A32263	WyC
Minnetonka		John M. Steinbreck, Exp. Sta., Lander, Wyo.		A3493	WyC
Minnetonka Beauty		J. V. Bailey Nurs., St. Paul, Minn.		A49139	WyC
Mio	238074	Sweden 1957			MdG
Mio	238074	Glenn Dale, Md.		AP-H-282	WaP MeO, NyG
Mio	247443	Sweden 1958			MdG
Miron Sacharanij	154164	Germany 1946			MdG
Mitchurin #3		USSR	Tree, hardy & vig, Scab infect. sev., no blight.		SdC
Mitschurins Samenioser	154165	Germany 1946			MdG
Hybride aus Mlejewo	154160	Glenn Dale, Md.		A48544	WyC
Mlyyef		Thomas Mannseichner, Pfaffenhoffen/llm. Bavaria, Germany		A4858	MnS
Mobb's Royal	134431	New Zealand 1939			MdG
Monier	173984	France 1949			MdG

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Monier	173984	Glenn Dale, Md.		5	MoC NjB
Monmouth Beauty		Bountiful Ridge Nur., Princess Anne, Md.	Fr. med.-lge., oblate-rnd. Skin tough, smooth, yel. w. red blush. Flesh tinged w. yel., firm, juicy, sa., arom., good. For home orch. Nov.-March. Tree med. size.	A5583	NyG WyC
Monmouth Beauty					PaU
Monona		AES, Ames, Iowa	Wolf River X Harrington.	A30318	WyC
Monroe		Orig. at Geneva, N.Y. Introd. 1949	Jonathan X Rome Beauty. Fr. med., rnd, conic., 90% striped. Flesh semi-firm, sa., good. Resembles Jonathan. Mid.-Oct. Late keeper. Hardy annual bearer.		NyG
Monroe		N. Y. State Fr. Test. Assoc., Geneva, N.Y.		37	MoC MeO, KaM, NjB, OhW, PaU, IlU, OrC
				N5862	MnS
				113	VtB
				AP-H-86	WaP
				M753	WaM*
Monroe			2 yrs. neg. on R12740-7A.		CnS, InL*
				108	VtB
Monroe		Kelly Bros. Nur.Inc., Dansville, N. Y.		A53122	WyC
Monroe		Maloney Bros. Nur., Dansville, N.Y.			MiG

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Montgomery		W. P. Wheeler, Chittenango, N.Y. 1892. Wild sdlg. Introd. 1914	Fr. med., rnd.-conic., soft. Flesh whitish-cream, sa., sl. astr., fair. Late Sept.		NyG
Montmorency		Maine Apple Tree Pool	Non-bearing trees.		MeO
Montreal Beauty		Exp. Sta., Lander, Wyo.		A3497	WyC
Montreal Peach		Dominion Exp. Sta., Morden, Manitoba	4/lb., rnd., yel.-peach blush, soft, sa., fair. Early Sept. No blight. Hardy.	9517	NdM
Mooney		Henry Miller, Paw Paw, W. Va. 1957	Early. Highly colored.		NyG
Mora	102550	Italy 1933			MdG
Moris		Dominion Exp. Farm, Morden, Manitoba, Canada		9824	NdM
Morrison Early Seedling		Charles Morrison, Zillah, Wash.		AP-H-403	WaP
Morse		W. R. Leslie, Morden, Manitoba, Canada		A34674	WyC
Morse Beauty		George A. Morse, Williamson, N.Y.	Fr. med., rnd.-conic., gr.- yel. Flesh cream, soft, sa., fair qual. Early Sept. No value,		NyG
Mortoff					NdF

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Mortoff		Dominion Exp. Farm, Manitoba, Canada	4/lb., oblong-conic., yel. w. pink cheek, excel. flavor. Early Sept., severe blight. Hardy.	9499 A34668	NdM WyC
Morton's Worcester		Glenn Dale, Md.		N54281	MnS
Moscow Pear		Dominion Exp. Farm, Manitoba, Canada	Fr. med.-sm., oblate, yel. Qual. fair. Late July. Tree v. hardy.	N4537	MnS
Moscow Pear		Glenorchie Farm, Manitoba, Canada	Russian orig.	A36752	WyC
Moscow Pear	155455	Canada 1946			MdG
Mother		Ellwanger & Barry, Rochester, N.Y. 1883	Fr. med., unif. shape & size, rnd. to sl. conic. Skin thin, smooth, golden yel., cov. w. brt. deep red. Flesh fine, juicy, mild, sa., arom., v. good flavor & qual. Late Sept.-early Jan. Tree med.-sm.		NyG
Mother		AES, Geneva, N.Y.		N5921	MnS
Mother		Waynesboro Nur., Waynesboro, Va.			OhW
Mottais	162735	France 1948			MdG
Mousset Roux	162736	France 1948			MdG
Mr. Prothero	126887	England 1938			MdG
Muscadet de Bernay	200576	France 1952			MdG
Muscadet de Bernay	200780	France 1952			MdG

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Muscadet de Bernay	200780	Glenn Dale, Md.	Fr. med.-lge., oblate, 90% red stripes; flesh cream, firm, sa., astr., poor qual. (cider apple). Early Nov. Worthless.		NyG
Muscadet de Lense	173985	France 1949			MdG
Muscadet de Lense	173985	Glenn Dale, Md.	Fr. med., 3/4 striped. Flesh cream, semi-firm, acid, v. astr. V. poor qual. (cider apple) Late Oct.	3	MoC NyG
Muster					PaU
Mutsu	195834	Glenn Dale, Md.	Golden Delic. X Indo. Fr. lge., conic.; skin yel., smooth, orange blush on exposed cheek. Better than G. Del. Late Oct.-early Apr. Larger, russets less, stores better than G. Del. Resist. to drought, fire blight, sprays injury.		NyG, CnS, NjB, KaM
Mutsu	223602	Japan 1955	Golden Delicious X Indo.		MdG
Mutsu	223602	Glenn Dale, Md.		133 75 AP-H-291	VtB OhW, KaM MoC WaP
Mutsu			2 yrs. neg. on R12740-7A.		InL*
Musalma #826	30326	Turkestan 1910	Chinese Turkestan orig. May be lge. var. of P.I. 30309. Yel.-gr., odd texture, sl. insipid. Good storage. Fall ripening. Resist to drought, alkali, fire blight. Strong scaffold, semi-dwf.		MdG

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Musalma	30309	Glenn Dale, Md.			KaM
Namew	148707	Canada 1944	M. pumila var. Niedzwetzkyana X M. baccata.		MdG
Namew	148707	Glenn Dale, Md.		19	VtB NjB
Namew					PaU
Namew	128409	M. B. Davis, Ottawa, Ontario, Canada		A38683	WyC
Namew		W. H. Perron & Co., Montreal, Quebec, Canada		A52283	WyC
Nanny	131215	England 1938			MdG
Nanot	161763	France 1948			MdG
Narvoporvirsw Kojin #46		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4891	MnS
Nebo		AES, Brookings, S.D.	Alexander X Mercer. Fr. lge., dull red w. some striping. Qual. fair. Keeps poorly in common storage.	A41735	SdC WyC
Nebraska Golden		Willis Nur., Ottawa, Kansas		A33167	WyC
Nehou	175544	England 1949			MdG

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Nehou	175544	Glenn Dale, Md. 1954	Fr. med., 1/4 dull stripes, unattrac. Flesh semi-firm, creamy sa., astr., poor qual.		NyG
Nelson		Snyder Bros., Center Point, Iowa		A33610	WyC
Nero		Harrison Nurs., Berlin, Md.		A341309	WyC
Neverblight	161843	England 1948			MdG
Neville Copeman	246669	England 1958			MdG
Neville Copeman	246669	Glenn Dale, Md.		AP-H-369	WaP
Nevis	127701	S. Dak. 1938			MdG
Nevis	127701	Glenn Dale, Md.	Wild crab.		NjB
Nevis		Coll. near Nevis, Minn. 1930	Fr. inedible, gr. & v. hard. Dwf. tree v. subj. to scab.		SdC
Nevis Prairie Crab					PaU
Newell		W. E. Bates, Stevensville, Pa. 1939	Fr. lge., rnd.-oblate, 100% dk. stripes. Flesh semi-firm, white, sa., sl. astr., fair. Mid.-Oct. No comm. value.		NyG
Newell's Winter		Sherman Nur. Co., Charles City, Ia.		A34592	WvC
Newfame		Orig. Geneva, N.Y. Introd. 1927	Deacon Jones X Delic. Fr. lge., conic., 90% bright attrac. red. Flesh yel., sweet, good. Late Oct.		NyG

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Newfame		AES, Geneva, N.Y.		N6031	OrC MnS
Newfame					OkS
Newfame		Sherman Nur. Co., Charles City, Ia.	Resembles Delicious.	A49263	WyC
Newport Cross	104615	England 1934			MdG
Newtosh		Centr. Exp. Farms, Ottawa, Canada 1951			OrC
Newtosh		Exp. Farm, Ottawa, Canada 1940	Fr. med.-lge., rnd. oblate, entirely striped. Flesh cream, firm, sa., good. Mid.- Oct.		NyG
Newtown Wonder		Glenn Dale, Md. 1939	Fr. lge., rnd., sl. flattened; skin tough, smooth, yel.-gr. w. pale crimson flush. Flesh yel. firm, crisp, juicy, acid. Excel. cooking. Mid.-winter. Tree vig.		NyG
Newton Wonder	107178	Glenn Dale, Md.			InL
Nez-plat	136596	France 1940			MdG
Nichner		Snyder Bros., Center Point, Ia.		A33607	WyC
Nicholson #1		Chance sdg. found in Tyler Co., W. Va.	Fr. well colored, red striped, blushed. Ripens w. Lodi. Flavor & qual. v. good.		Va3
Nickajack		Arlington Farm, Va.		A3045	WyC

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Niemeyer		Spring Hill Nur., Tipp City, Ohio			OhW
Niewland Crab		Snyder Bros., Center Point, Ia.		B38394	MdG
Niobe		Centr. Exp. Farm, Ottawa, Canada	Fr. med.-lge., rnd., 1/2 striped. Firm, sweet, fair. Mid.-Oct.		OrC, NyG
Niobe					PaU, OrC
Niobe #0-22086	113475	Canada 1955			MdG
Nipissing	148496	Canada 1944	M. pumila var. Niedzwetzkyana X M. baccata.		MdG
Nipissing	148496	Glenn Dale, Md.	Fr. 1 1/2", oblate, all red, flesh pink, inedible. Mid.- Oct. Foliage red, flowers deep pink.		NjB, NyG
Nipissing		Manitoba Hardy Plt. Nur., Manitoba, Can.		A38655	WyC
Nitschners Erdbeerapfel		Germany 1946			MdG
	154166				
Nitschners Erdbeerapfel		Glenn Dale, Md.		A48546	WyC
	154166				
Noah		Lynn Tuttle, Nebr.		AP-H-9	WaP
Noel Deschamps	165504	Glenn Dale, Md.	V. late bloom, Cider apple.		NjB
Noel Deschamps	162504	France 1948			MdG
Noel Deschamps	173986	France 1949			MdG

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Noel Deschamps	162769	France 1948			MdG
Norfold Beefing	157733	England 1947			MdG
Norfolk Royal	123729	England 1937			MdG
Norman's Pippin	131438	England 1939			MdG
Northern Dublin	137093	Belgium 1940			MdG
Northern Spy		T. C. Maxwell Bros., Geneva, N.Y. 1910	Fr. usually lge., rnd.- conic. Skin thin, tender, smooth, gr.-yel. w. striped splash. Flesh yel., firm, mod. fine tender, crisp, v. juicy, sa., arom., v. good to best. Tree lge., vig. Dec.-Mar.		NyG
Northern Spy		Greening Nur., Monroe, Mich.	Sdlg. Fr. lge., oblate to oblong, gr.-yel. to lgt. red. V. good.		OhW
Northern Spy		Maine (New Hampshire)	No stem pitting virus.		MeO*
Northern Spy		Manten's Nur., White Rock, B. C., Canada 1953		143	VtB
Northern Spy		May Nur. Co., Yakima, Wash.		AP-H-406	WaP
Northern Spy		McNeil Island, Steilacoom, Wash.		M532	WaM
Northern Spy			Winter, late blooming.		NjB
Northern Spy				162	VtB CnS, PaU, InL, IUU

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<u>Northern Spy Sports</u>					
Bender Spy		Ray Bender, Westport, N.Y. 1950			NyG
Farley		Greening Nur., Monroe, Mich.			MiG
Farmer		D. D. Tryon, Pulaski, N.Y. 1910	Red sport of Northern Spy. No special merit.		NyG
Green			Spy type, only skin solid brt. red. (Probably same as Schaharis Spy)		NyG
Hathaway		D. B. Hathaway, Ontario, Canada 1928	Bud material of N. Spy. Fr. variable, good color, 100% crimson blush.		NyG
Kinhead Red		Centr. Exp. Farm, Ottawa, Canada 1958	Red Spy.		NyG
Kuppens		J. Kuppens, N.Y. 1939	Red sport of N. Spy. Ident. w. parent var., except solid red color.		NyG
Loop Giant		H. S. Loop, North East, Pa.			NyG
Manitoba	/		Blight suscept.	11403	NdM
Peru Red		Scolarie Nur.	Fr. med., oblong, red. Good.		OhW
Prairie		Fr. Breeding Farm, Excelsior, Minn. 1936	Parents unknown. Introd. 1940. Fr. lge., rnd., 1/2 striped. Flesh semi-firm, creamy, sa., good dess. & culin. Mid.-Oct. Long stor. Not Spy type.	AP-H-109 122	NyG, MnS, SdC, WiS, WiM, OrC WaP VtB

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<u>Northern Spy Sports</u>					
Prairie		Andrew's Nur., Faribault, Minn.			NdF
Prairie		Iowa St. Univ., Hort. Dept., Ames, Iowa			IoA
Prairie					IlU, OkS
Red		N. Y. State Fr. Test. Assoc., Geneva, N.Y.	A redder Northern Spy.		OhW, MeO
Red		Greening Nur., Monroe, Mich.			OhW
Red		Maine Apple Tree Pool			MeO
Red		Carlton Nur., Oregon 1948			OrC
Red		Bountiful Ridge Nur., Princess Anne, Md. 1957	Red mutation of Northern Spy	30	MoC
Red		Iowa State Univ., Hort. Dept., Ames, Iowa			IoA
Red			Stuart Strain.		IlU
Red			Winter, late blooming.		NjB
Redwin		E. D. Smith & Sons, Ont., Canada 1936	Fr. lge., colors earlier, btr. red than Northern Spy.		NyG
Schaharis		C. E. Green, Victor, N. Y. 1910	N. Spy type. Fr. ident. except for red blush.		NyG

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Northland		AES, Excelsior, Minn.	Fr. 1 5/8" solid deep red. Good qual. crab. Mid.-Aug. Released for N. Minn.		NdM, MnS
Northwestern Greening		Rice Bros. Co., Geneva, N.Y. 1915	Fr. med.-lge., variable size & shape, rnd.; skin smooth, yel.-gr., sl. blushed. Flesh yel. tinged, juicy, arom., mild sa., fair-good. Dec. Tree vig.		NyG
Northwestern Greening		Andrew's Nur., Faribault, Minn.			NdF
Northwestern Greening		Harrison Nur. Co., York, Neb.		A32689	WyC
Notaire	137094	Belgium 1940			MdG
Notaire	161408	Netherlands 1947			MdG
Novopowlowaskoje	154167	Glenn Dale, Md.	Russian origin.	A48547	WyC
Nu-Jon			Pos on R12740-7A.		InL*, CnS, WiS
Nu-Jon		C. & O. Nur., Wenatchee, Wash.			InL*, CnS, WiS
Nu-Jon		Alvin Marr, Entiat, Wash.	Fr. lge., deep red, striped, good qual. 10 days earlier than Jonathan. Tree resist. to mildew.	AP-H-24	WaP
Oberlander Himbeerapfel		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4859	MnS
Oekonomierat Echter- Meyer	78170	Germany 1928	Ornam. flowering var.		MdG

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Oetwiler Renette	134809	Switzerland 1939			MdG
Ogden					PaU
Ogden		N. Y. State Fr. Test. Assoc., Geneva, N.Y.	Zusoff X McIntosh. Fr. lge., rnd.-oblate, nicely colored dk. solid red. w. heavy bloom. Flesh white, often red stained, somewhat coarse, tender, sweet, juicy. Baking. No. comm. value. Ripens before Mcl. Prod., requires thinning.	NY 3609 A35389	NyG WyC SdC, MiG
Ohio Franklin		Ohio 1943			OrC
Ohio Nonpareil					PaU
Ohio Nonpareil			Fr. lge., oblate, streaked red over gr.-yel. Flavor good.		OhW
Ohlson		C. Schwartz, Puyallup, Wash.	Fr. lge., oblong, 1/4 striped on gr. gnd. Flesh rather soft, cream, sa., good. Late Aug.	AP-H-147	WaP NyG, OhW, OrC
Ojalbov #42		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4866	MnS
Okabena					WiS
Okabena		Shenandoah Nur., Shenandoah, Ia.	Prob. Oldenburg X Wealthy.	A32368	WyC
Okanaga	128411	M. B. Davis, Ottawa, Ontario, Canada		A38684	WyC

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Okanaga	148708	Canada 1944	Sdlg. of M. pumila var. Niedzwetskyana.		MdG
Okan Lok	102127	Sweden 1933			MdG
Olands Kungs		Glenn Dale, Md.		N5119	MnS
Olands Kungs	102142	Glenn Dale, Md.	Early summer.	A5170	NjB WyC
Oleg		Glenn Dale, Md.		N518	MnS
Oleg	107230	Glenn Dale, Md.		A5173	WyC
Old Fashioned Red		O'Rourke 1940		B35124	MdG
Olga		John Robertson, Hot Springs, S. Dak.	Duchess X Cherry Crab.	A32359	WyC
Olga		AES, Brookings, S.D.	Fr. 35/lb., oblate, bright red, tart, sl. bitter, excel. jelly. Mid.-Sept. Tree vig., blight & scab free.		MdM, SdC
Olga	127702	S. Dak. 1938			MdG
Oliver		Stark Bros. Nur., Louisiana, Mo.	Fr. med.-lge., oblate, dk. red. stripe. Skin thin, tough, waxy. Flesh tinged yel., fine, crisp, juicy, sa. good. Dec.-Mar. Tree med., v. vig.		NyG, OhW
Omont	162738	France 1948			MdG
Ontario	237702	USDA, Beltsville, Md. 1953		B44001	MdG
Ontario		Glenn Dale, Md.		N57103	MnS

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Ontario		Geneva, N.Y. 1930	Northern Spy X Wagener. Fr. lge., oblate, sl. conic. Skin thin, tough, smooth, pale yel., splashed w. carmine. Flesh yel., firm, crisp, v. juicy, arom. Good culin. Nov.-March Tree vig.		NyG
Opalescent				171	VtB PaU
Opalescent		McNary & Gaines, Xenia, Ohio 1901	Fr. lge., rnd.-conic., skin thick, tough, glossy, pale yel. w. red stripe. Flesh tinged yel., firm, juicy, sa., arom. Good. Nov.-Mar. Tree vig.		NyG
Oporto	136020	England 1940	Red leafed ornam.		MdG
Orange Crab		Jewell Nur. Co., Long Lake, Minn.		A33566	WyC
Orange Red		Milton Nur. 1945			OrC
Orei		Glenn Dale, Md. 1954	Fr. med.-lge., conic., yel. Flesh, cream, sa. Good. Late Oct.		NyG
Orenco		Oregon Nur. Co., Orenco, Ore. 1916	Fr. med.-lge., 3/4 dull dk. stripes. Flesh yel., sa., fair, Late Sept.		NyG
Oretorp Renett	224198	Glenn Dale, Md.		A5793	WyC
Orient	199532	Japan 1951			MdG

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Orient		Glenn Dale, Md. 1952	Fr. med., conic., all stripes, attrac. Flesh cream, sa., fair. Late Oct.		NyG
Oriole		Andrews Nur., Faribault, Minn.		A48373	MiG WyC
Oriole		Andrews Nur., Faribault, Minn.			IoA
Oriole		AES, Excelsior, Minn.	Fr. lge., conic., 3/4 blush. Flesh nearly white, soft, sa., good. Late Aug. Resembles Atlas but better qual. dess. & 9490, 11715 culin. Hardy, Blight suscept. 11056	AP-H-115	WiS, NyG, MnS, SdC, NjB, OrC WaP
Oriole		Farmer Seed & Nur. Co., Faribault, Minn.		114	VtB
Oriole					OhW, InL
Orleans					OKS
Orleans		N.Y. State Fr. Test. Assoc., Geneva, N.Y.	Deacon Jones X Delic. Fr. lge. conic., all stripes. Scurf skin. Flesh firm, cream, sa., good. Del. type. Late Oct.	N5775	NyG, WaP MnS
Orleans		AES, Newark, Del.		AP-H-409	WaP
Orleans		Bountiful Ridge Nur., Princess Anne, Md.		A53126	WyC
Orleans Reinette		Geo. Bunyard & Co., Maidstone, Kent, England	V. old var. (c.1770) Fr. med., rnd., sl. flat. Skin thick, yel., sl. russet. Flesh yel., crisp, juicy, v. rich flavor. Sweet dess.		NyG

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Ortley		AES, Hood River, Ore.		AP-H-214	WaP
Ortley		Milton Nur, 1945			OrC
Osman		Skinner's Nur. Ltd., Manitoba, Canada	Vig., good, prod., hardy.		ApP
Osman		Morden, Manitoba	Siberian Crab X Osimoe, 30/lb., oblate, red-orange, tart, astr., bitter. Blight resist. Late Aug. Hardy.		NdM
Osman		Boughen Nurs., Valley River, Manitoba, Canada		A33823	WyC
Osman	123995	Canada 1937			MdG
Osten		W. W. Row, Cando, N.D.		A38871	WyC
Ostrakoff		Stevenson Bros., Manitoba, Canada		A33871	WyC
Oswego		Orig. at Geneva, N.Y. Introd. 1915	Sutton X Northern Spy. Fr. lge., rnd.-conic., all dull stripe. Flesh firm, cream, acid. Fair. Spy flavor. Oct.		NyG
Ottawa Patricia					NyG
Owatonna		Cheyenne Hort. Sta., Cheyenne, Wyo.		11606	NdM
Owatonna		Clinton Falls Nur., Owatonna, Minn.		A32433	WyC

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Oxbo		AES, College Sta., S.D.	Roxbury Russet X Duchess. Fr. yel., coarse texture, good qual., generally borne singly, well distrib. Plt. hardy w. good growth habits.		NdM
Oxbo		Mandan, N.D.	Fr. 4/lb., rnd., yel. peach cheek, tart, sa., fair. Mid.- Sept. Sev. blight.	10657	NdM
Oxbo	127703	AES, College Sta., S. D. 1938			MdG
Ozark Ruby		Ozark Nur., Tahlequah, Okla. 1953			OrC
Parcel Crab		Plumfield Nur., Fremont, Nebr.		A4925	WyC
Padley's Pippin	199420	England 1952			MdG
Padley's Pippin	199420	Glenn Dale, Md.	Swedish var., reported to have exceptional frost resist. & long storage life.	12294	NjB, InL NdM
Paducah					OkS
Paducah		Green River Home Nur., Robards, Kentucky		A341232	WyC
Paducah		AES, Lexington, Kentucky 1916			NyG
Palas		David Tait, Centerton, St. Joseph Isle, Ontario, Canada		A32877	WyC

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Panera	245143	Spain 1958			MdG
Papvirovka Polsky		Komik Inst., Poland 1934	Old Polish var. Fr. med.,- sm., not unif.,rnd.-conic. Skin thin, white-yel., smooth. Flesh white., crisp, juicy, sa. Good dess. July-Aug. Early break-down. Tree mod. vig., med. size.		NyG
Paradis de Vayre	162507	France 1984			MdG
Paradise Sweet		R. C. Anderson, Kansas City, Mo. 1956	Fr. lge., rnd.-oblate,dull gr. w. brownish-red flush, fine grained, juicy, sweet. Early-mid, winter. Tree vig., prod., late bearer.		NyG
Paradiso (W. A. R.)	105388	Italy 1934	Woolly aphid resistant.		MdG
Paragon					CnS, OkS, NjB, ILL
Paraquet	123964	England 1937			MdG
Parkers Pipping		Obstgut Amstetten, Austria 1934	Fr. med., russet. Flesh semi-firm, creamy, sl. acid. Good. Late Sept.		NyG
Patricia		Centr. Exp. Farm, Ottawa, Canada 1940	Fr. med., rnd., 90% red blush. Flesh soft, nearly white, sa. Good. Alternate bearer. Late Sept.		NyG
Patricia		Manitoba, Canada	McIntosh op.	N3265	MnS

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Patricia		W. W. Row, Cando, N.D.	Sdlg. of McIntosh.	A38873	WyC
Patten		Mandan Station, N.D.	Fr. 4/1b., oblate, yel. w. peach blush, tart, good culin. Late Sept. Lt. blight. Hardy.	9528	NdM
Patten		AES, Wooster, Ohio			InL
Patten		S. L. Davenport, N. Grafton, Mass.	Fr. med., oblong, conic., dull dk. red. Flavor fair.	A38873	WyC
Patten		Shenandoah Nurs., Shenandoah, Ia.	Sdlg. of Oldenburg.	A34259	WyC
Patten # 1047		AES, Ames, Iowa		N5233	MnS
Patten Greening		Shenandoah Nur. Co., Shenandoah, Ia.	Sdlg. of Oldenburg.	A32370	WyC
Pattie	151260	Canada 1945			MdG
Pattie Crab		Boughen Nur., Manitoba, Canada		A48393	WyC
Payette	157848	Idaho 1947			MdG
Payette		AES, Moscow, Idaho 1945	Fr. lge., 90% striped, rnd., flesh semi-firm, sa.; good. Early Oct.		NyG
Peace Garden		North. Great Plains Field Sta., Mandan, N. D.	Malinda X Oldenburg. V. attrac. red, polished, waxy. Flesh white, fine, tart-sa., improves in stor., best tested. Late Sept. Hardy. Light blight.	11381, 11967 N5779	NdM MnS NyG, OhW
Peach	151496	Maine 1945			MdG

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Peach of Montreal		Kenneth McDonald & Sons, Ottawa, Canada		A38789	WYC
Pearmain "A"		New Zealand - 1961			NyG
Peasgood's Nonsuch	131216	England 1938			MdG
Peasgood's Nonsuch	131216	Glenn Dale, Md.			InL
Peau d'Ane	136244	France 1940			MdG
Peau d'Ane	162740	France 1948			MdG
Peau de Vache	136489	France 1940			MdG
Peau de Vache	173987	Glenn Dale, Md. 1954			NyG
Peau de Vache	136597	France 1940			MdG
Peau de Vache	173987	France 1949			MdG
Peck Pleasant		R. C. Anderson, Kansas City, Mo. 1956	Fr. med., oblate-rnd,- conic. Skin thick, tough, gr.- waxy yel. w. orange-red blush. Flesh yel., firm, tender, crisp, juicy, sa., arom. V. good. Sept.- March. Tree med., mod. vig.		NyG
Pederstrup	104807	Sweden 1934			MdG
Peerless		Orig. Minn. 1867	Tree vig., healthy, prod., relatively hardy.		MnS
Peerless		Shenandoah Nur., Shenandoah, Ia.	Sdlg. of Duchess.	A33197	WYC
Penrome		PSU Orch.	Bud mut. of Rome Beauty.		PaU

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Pepin Shafrannyi	259452	Poland 1959			MdG
Pepinka Litewska		Kornik Inst., Poland 1934	Fr. sm., oval. Skin thin, br. to yel. w. little washed red blush. Flesh white-yel. sa., unusually juicy, Qual. fair. Sept. Tree med., v. dense, mod. vig.		NyG
Peppin Kitayka #91		Thomas Mannseichner, Pfaffenhoffen /llm. Bavaria, Germany		N4885	MnS
Perkins			Fr. lge., brt. red. v. attrac. Med. hardy.		MnS
Perkins		Shenandoah Nur., Shenandoah, Ia.	Sdlg. of Malinda.	A341248	WyC
Perkins 72		Cashman Nurs., Owatonna, Minn.	Malinda sdlg.	A34439	WyC
Pero Pardo	105519	Spain 1934			MdG
Perrine Yellow Transparent		D. B. Perrine, Centralia, Ill. 1948	Mut. of Yellow Transparent. Giant type: 2-4-4-4.		NyG
Perrine Yellow Imperial		D. B. Perrine, Centralia, Ill. 1957	Mut. of York Imperial. Giant type: 2-4-4-4.		NyG
Perzikrode Zommerappel			Apple mosaic + Pos. on R12740-7A.		InL*
Peter		Sherman Nur. Co., Charles City, Ia.	Sdlg. of Wealthy.	A34589	WyC
Petrel			Early summer.		NjB

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Petrel		Glenorchie Farm, Manitoba, Canada		A38737	WyC
Pettingill		Armstrong Nurs., Ontario, Calif.			OhW
Pewaukee		Plumfield Nurs., Fremont, Nebr.	Oldenburg X Northern Spy.	A35166	WyC
Pied Court	188604	France 1950			MdG
Piekne Oltarzewa	132829	Poland 1939			MdG
Piervomaiskoie	259453	Poland 1959			MdG
Pigeon Elvoa		R. Nitschke, Birmingham, Mich. 1957			NyG
Pigeonnet Blanc	132272	France 1939			MdG
Pigeonnet Rouge	132273	France 1939			MdG
Pinkeye		O.H. Will & Co., Bismarck, N.D.	Subj. to fire blight injury. Ht. 9'; fr. red; 1/2" dia.	11221	NdM
Pink Pearl		Calif. Nur. Co., Niles, Calif.	Fr. med.-lge., rnd.-conic., yel. Flesh soft pink, sl. acid. Fair qual. Early Oct. No comm. value.	A48105	WyC NyG, OhW, OrC
Pink Wood		M. Sharpe, Vacaville, Calif. 1939	Fr. sm., 100% dk. striped. Flesh soft, white, sl. acid. Poor. Late Sept. Pink xylem. No comm. value.		NyG
Pine Golden Pippin	157734	England 1947			MdG

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Pinegrove Red		Stevenson Bros., Manitoba, Canada		A32790	WyC
Piotet	144023	Canada 1942			MdG
Piotet		Boughen Nurs., Valley River, Manitoba, Canada		A49418	WyC
Piotosh Crab		Andrews Nur. Co., Faribault, Minn. 1942	Pioneer X McIntosh. Fr. sm., brt. scarlet. Flesh semi-firm, yel.-cream, crisp, sa. Fair. Mid.- Sept. Hardy.	A48369	NyG, NdM WyC
Piotosh					MnS, SdC
Pitmaston Pine	131439	England 1939			MdG
P. J. Berguis	102144	Sweden 1933	Skin yel.-wh. to lt. red. Excel. dess. Sept.		MdG
Plum Cider		Exp. Sta., Lander, Wyo.		A3490	WyC
Pollock Stark		Pollock, Wyo. 1925	Mut. of Stark. Ident. w. Stark, except more red color.		NyG
Polly Eades		Princeton, Ky. 1961			NyG
Pomme Cloch	134668	Switzerland 1939			MdG
Pomme Framboise	131975	Belgium 1939			MdG
Pomme Grise		R. Nitschke, Birmingham, Mich. 1958	Fr. med.-sm.,oblate to rnd. Skin thick, tough, deep yel., or gr., russet. Flesh yel., firm, crisp, spicy, sa., arom., v. good. Nov.-Mar. Tree mod. vig.		NyG

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Pomme Pierre	161764	France 1948			MdG
Pomme Pierre	161764	Glenn Dale, Md.	Fr. 2 1/2", 100% red stripe. Reported high vit. C. Mod. yields. Oct.		NyG, NjB
Pomme Raisin	134669	Switzerland 1939			MdG
Pomme Thoury	162548	Glenn Dale, Md.			NjB
Pommier Llorca	240817	Algers 1957			MdG
Pommier Llorca	240817	Glenn Dale, Md.	Low chilling.		NjB
Ponsford	125267	England 1937			MdG
Porter		Ellwanger & Barry, Rochester, N.Y. 1907	Fr. sm.-lge., oblong-conic. Skin smooth, glossy, brt. yel. w. faint blush. Flesh yel. firm, crisp, tender, juicy, sa., arom. Good dual purpose. Sept.-Nov. Tree vig. lge.		NyG
Porter's Perfection	161844	England 1948			MdG
Porter's Perfection	161844	Glenn Dale, Md.			NjB
Potts Seedling	126586	Germany 1938			MdG
Potts Seedling	126586	Glenn Dale, Md.			InL
Pound Sweet		Maine Apple Tree Pool			MeO
Prairie		AES, North Platte, Neb.	Attrac. orn., ht. & spread 11'. Pink blossoms, gr. fr. 3/4".	10816	NdM

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Prairie Gold		Mandan, N.D.	Robin X Duchess. Fr. 8/1b., yel. flesh, sl. ridged, oblate, firm, juicy, tart, sa. Tree semi-dwf., no leader, bark dk. & rough. Not sunscald. Lt. blight. Early mid-Aug. Fr. does not keep. Hardy.		NdM, NdF
Prairie Gold		Will's Nur., Bismarck, N.D.			SdC
Prairie Gold		Inter-State Nurs., Hamburg, Ia.		N54286	MnS
Prairie Rose		AES, Urbana, Ill.	Ornam. crab. Double pink flowers, late blooming, completely sterile. V. suscept. to cedar-apple rust. Prob. tetraploid.		IlU
Pres. Descours - Desacres	122620	France 1937			MdG
Present Van Holland	188520	Netherlands 1950			MdG
Presepio	104511	Italy 1934			MdG
Price's Sweet		Shenandoah Nurs., Shenandoah, Ia.		A33204	WyC
Primate					PaU
Primate		Ellwanger & Barry, Rochester, N.Y. 1910	Fr. med.-lge., rnd.-conic. to oblate-conic. Skin thin smooth, lt. gr., sl. blushed. Flesh wh., fine, crisp, juicy, sa., arom. V. good. Aug.-Sept. Tree med.-lge., mod vig.		NyG

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Prince of Orange		Boughen Nurs., Valley River, Manitoba, Canada		A33824	WyC
Prince Nicolas	137047	Switzerland 1940			MdG
Printosh		O. H. Will, Bismarck, N.D.	Prince X McIntosh. Fr. 15/lb., pink, oblate, tart, juicy, blight resist. Early Sept. Hardy.		NdM
Printosh		Glenorchi Farm, Manitoba, Canada		A33798	WyC
Prinz Albrecht V. Preussen	126587	Germany 1938			MdG
Prinzenappel	125730	Glenn Dale, Md.			InL
Professor Sprenger	231923	Holland 1956			MdG
Professor Sprenger	231923	Glenn Dale, Md.			WaP
Pumkin Sweet		AES, Urbana, Ill.			NjB
Pumkin Sweet		Ellwanger & Barry, Rochester, N.Y. 1883	Fr. lge., globular to rnd.- conic. Skin thin, smooth, gr.- yel. Flesh tinged yel., med. crisp, juicy, peculiar flavor. V. good culin. Oct.-Jan. Tree med. vig.		NyG
Puritan		AES, Amhert, Mass.	McIntosh X Red Astrachan. Fr. med.- rnd., 100% striped. Flesh soft, nearly wh., sa. Good. Mid.-Aug.		NyG, PaU, CnS, NjB, WiS, IlU, OrC
Puritan		N.Y. State Fr. Test. Assoc., Geneva, N.Y.		AP-H-378	WaP

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Purple Glory		George Nelson, LaCrescent, Minn.		N5047	MnS
Quaker Beauty	148481	Glenn Dale, Md. (Scions from Canadian Exp. Sta.)	Fr. sm., 1/2 pink blush, flesh firm, creamy, sa., sl. astr. Fair. Late Sept.	A48296	WyC NyG, MiG
Quality Crab		Boughen Nur., Valley River, Manitoba, Can.		A52230	WyC
Quarrenden Red	126889	England 1938			MdG
Quebec Belle		Perran Seed Co., Montreal, Canada 1959	Fr. v. lge., rnd.-conic., 90% striped. Yel.-cream, Flesh, v. firm, sl. acid. Fair. Mid.-Oct.		NyG
Queen	128364	Glenn Dale, Md.			InL
Queen Cox		England	Bud mut. of Cox Orange. Cox type, prob. no higher color than Cox. Late Sept.		NyG
Questenberry Seedless		Found near Indian Valley, Va. Orig. tree known for more than a century.	Apetalous type bearing fr. elongate conic., pinkish stripe, arom.; flavor accept. qual. Mid.-Aug.		VaB
Radiance		Fr. Res. Orch., Goddard Lane, Havelock North, New Zealand 1961			NyG
Radiant			Ornamt. crab.		ILU
Rainier		N. J. Bruele, Yakima, Wash.		AP-H-400	WaP

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Ralls			Winter, v. late blooming.		NjB
Rambo			Fr. med.-sm., oblate, gr.-yel. streaked w. red. Flavor good.		OhW
Rambo English		T. E. Reynolds	Fr. lge., oblate-oblong, truncate, gr.-yel. streaked w. red. Flavor good.		OhW, PaU
Rambo Red					PaU
Rambo Summer		Waynesboro Nur., Waynesboro, Va.	Fr. lge., oblate-truncate, gr.-yel. w. lt. red stripes. V. good flavor.		OhW
Rambo Summer		R. C. Anderson, Kansas City, Mo. 1956			NyG
Rambo Summer					PaU, CnS, NjB
Rambo Summer, Red					PaU
Redsumbo		R. V. Doud & Son, Wabash, Ind. 1946	Mut. of Summer Rambo. Fr. skin lt. splashed bt. red. Qual. good. Dual purpose.	AP-H-146	NyG, MiG, OhW WaP
Redsumbo		Adams Nur. Co.			PaU
Redsumbo		Wabash, Ind., AES, N.Y. 1958			OrC
Redsumbo					InL
Rambourg d' Automne	132276	France 1939			MdG
Rambourg D' Hiver	131114	France 1938			MdG

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Rambourg d' Hiver	136490	France 1940			MdG
Rambourg Mortier	161765	France 1948			MdG
Rambourg Mortier	161765	Glenn Dale, Md.			NjB
Ramsdell Sweet		Snyder Bros., Center Point, Ia.		A34387	WyC
Raymond		F. H. Dallis, Beverly, Mass. 1950	Fr. med., rnd.-conic., all red stripe. Flesh soft, pink. Poor. Early Sept.		NyG
Redant		W. W. Row, Cando, N. D.	Sdlg. of Antonovka.	A38874	WyC
Red Apple	141871	Canada 1941			MdG
Red Apple	143973	Canada 1942			MdG
Red Astrachan	148147	New York 1944			MdG
Red Astrachan	148147	Glenn Dale, Md.		AP-H-245	WaP
Red Astrachan			Fr. med.-lge., rnd.-oblate to conic. Skin thin, tender, smooth, yel. w. red splash & stripe. Flesh white, tinged w. red, crisp, tender, juicy, sa., arom., good. Late July. Tree med. vig.		NyG, OhW
Red Astrachan		Glenn Woods, Manson, Wash.		AP-H-300	WaP
Red Astrachan		Cal Cooper, Pateros, Wash.		AP-H-231	WaP

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Red Astrachan		AES, Ames, Iowa			IoA
Red Astrachan		Maine Apple Tree Pool	Non-bearing trees.		MeO
Red Astrachan		Plumfield Nurs., Freemont, Neb.	Russian orig. thru Sweden.	A33423	WyC
Red Atlas		Centr. Expt. Farm, Ottawa, Canada	Atlas sport. Fr. med.-lge., conic., 90% crimson blush. Flesh white, soft, sa. Early Sept.	N4950	MnS NyG
Red Bietipheimer		J. J. Butger, Portland, Oregon	German orig.	A341286	WyC
Red Bellefleur		USSR	Tree open growth. Some scab observed.		SdC
Red Bonum					PaU
Red Canada		Ellwanger & Barry, Rochester, N.Y. 1883	Fr. med.-lge., rnd.-conic. Skin tough, nearly smooth, lt. yel. w. red blush. Flesh white, firm, crisp, juicy, arom., rich, sa., good. Dec.- Mar. Tree med. vig.		NyG
Red Canada		W. K. Hough, Romeo, Mich.	Winter, late blooming.		NyG
Red Canada		Greening Nurs.			OhW
Red Canel	157211	Finland 1947			MdG
Red Cheek Pippin		Graham Orch.		AP-H-171	WaP
Red Cheek Pippin		Oregon Nur. Co., Portland, Ore.			WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Red Cinnamon	207636	Finland 1953			MdG
Red Cinnamon	207337	Glenn Dale, Md. 1956	Fr. med.-lge., oblate, 1/2 striped. Flesh firm, white, cream, sa., good. Late Sept.		NyG
Red Cinnamon		Glenn Dale, Md.		A5789	WyC
Redcoat Grieve	126876	England 1938			MdG
Red Coding		J. H. Black, N.Y. 1928	Fr. lge., rnd.-conic., 3/4 stripe. Flesh med.-firm, creamy white, sl. acid. Mid.-Sept.		NyG
Red Cortland		Exp. Sta., Nova Scotia 1959	Radiation induced mut. of Cortland.		NyG
Red Cox's Pomona	246261	Denmark 1958			MdG
Red Crimson Beauty		Exp. Farm, Ottawa, Canada 1956	Fr. med., rnd. oblate, 100% attrac. blush, soft. Late July.		NyG
Red Dandy		C. M. Henry, Bellfontaine, Ohio			OhW
Red Davis		J. P. Vikla, Lonsdale, Minn.		N477	MnS
Redfield		N.Y. State Fr. Test Assoc., Geneva, N.Y. Introd. 1938	Wolf River X M. pumila var. Niedz. Flowers lge., v. dk.- pink. Fr. med.-dk. solid red, flesh dk. red. Foliage dk. w. red.-gr. tinge early in season. Possible ornamental.	NY4840 A48134	NyG WyC SdC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Red Fireside		Summit Nur., Stillwater, Minn.		AP-H-159 M773	WaP WaM
Red Flesh Crab		AES, Brookings, S.D.	M. pumila var. Niedz. X M. icensis. Vig. grower, some winter injury. Hard wood w. red color. Attrac. red blossoms. Dk. solid red fr. w. red flesh of poor qual.	A33601	SdC, NyG WYC
Red Flesh Crab	148853	N.A. Hansen Nur., Brookings, S.D.			MdG
Red Flesh Crab	148853	Glenn Dale, Md.		AP-H-357	WaP
Red Flesh Crab					NjB
Redford		N.Y. State Fr. Test Assoc., Geneva, N.Y.	Wolf River X M. pumila var. Niedz. Introd. 1938. Ornam. Pink flowers. Alternate bearer. Fr. med.-lge. Flesh red. Fair qual. Oct. 1. Prob. no comm. value, either as ornam. or fr. Foliage reddish gr. tinge early in season.	NY4876 A48137	NyG WYC SdC
Red Gold		Stark Bros. Nurs., Louisiana, Mo.	Golden Delic. X. Richared Delic. Fr. med., dk. red. Qual. good. Late Oct.	AP-H-65 N48105 A48271	WaP PaU, OhW, MiG, MeO, OrC MnS WYC
Red Gold		Clarence Schell, Cashmere, Wash.		AP-H-56 M741	WaP WaM
Red Gold			2 yrs. neg. on R12740-7A.		Ilu, InL*

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Red Goudreinette	199662	Glenn Dale, Md.	Fr. lge., oblate, 1/2 blush, russet. Flesh semi-firm, yel., sa., fair. Early Oct.		NyG
Red Haralson		Wyndmere, N.D.	Haralson sport.(?)		NyG MnS
Redhook		N.Y. State Fr. Test. Assoc., Geneva, N.Y.	McIntosh X Carlton. Fr. med.-lge., attrac. dk. red w. heavy bloom. Flesh may be quite red. Sprightly flavor, good dess. Ripens between Milton and McInt.	112 A48140	VtB OrC MiG
Red Jersey	161845	England 1948			MdG
Red Jersey	161845	Glenn Dale, Md.	V. late blooming cider apple.		NjB
Red Joaneting (Juneating)	123730	England 1937			MdG
Red June			2 yrs. neg. on R12740-7A.		InL*
Red June		Inter-State Nurs., Hamburg, Ia.			IoA
Red June					ILU
Red June		Sherman Nur. Co., Charles City, Ia.		A33642	WyC
Red Lowery		Harrison's Nur., Berlin, Md.		A5368	WyC
Redman	148482	Canada 1944	(M. baccata X Tetojsky) X McIntosh.		MdG
Red Pomme de Neige	133565	Australia 1939			MdG

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Red Prespanka	131468	Yugoslavia 1939			MdG
Red Prince		H. Miller, Consolidated Mut. Delicious. Orch., Paw Paw, W. Va.			NyG
Red Ribston					PaU
Red River	AES, Fargo, N.D.	Dolgo X Delicious. 10/lb., lge., attrac. red, oblate, juicy, quite tart, stores well. Good tree, spreading w. rt. angle crotches. V. hardy. Blight resist. Early Oct.	N3962 AP-H-121 M764	MnS SdC, OhW, NdF WaP WaM	
Red River	O. H. Will, Bismarck, N.D.				NdM
Red River	Andrews Nurs., Faribault, Minn.		A48372	WyC	
Red Sauce	AES, Geneva, N.Y.	Deacon Jones X Wealthy.	A3215 1311	WyC NyG	
Red Sauce	R. L. Wodarz, Wyndmere, N.D.	Red flesh.		NdF	
Red Sauce				CnS, PaU	
Red Seek-no-further	D.D. Stone, Oswego, N.Y.			NyG	
Red Siberian	215543	England 1955		MdG	
Red Siberian	Carl Hansen Nur., Brookings, S.D.	Attrac. ornam., red blossom, 12' ht. Fr. 1/2".		NdM	

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Red Siberian		Loveland Nur., Loveland, Colo.	Sdlg. Prob. valuable as rootstock.	A33519	WyC
Red Silver		Brand Peony Farms, Faribault, Minn. 1950		37	VtB
Red Silver		AES, Brookings, S.D.	Op. sdlg. Red blossoms. Silver-like leaves.		SdC
Red Soviet		USSR 1954	Fr. rnd., yel., w. lt. red blush, russeting at basal end. Sl. acid, good qual. Lvs. lge., leathery. Tree hardy, vig., good branching. No scab or blight.		SdC
Red Spitzenburg		AES, Grand Rapids, Mich. 1945	Sport of Esopus Spitzenburg. Fr. med., rnd., all dull blush. Flesh yel. cream, firm, sl. acid. Qual. fair. Late Oct.		NyG
Red Spitzenburg		Glacier Orch., White Salmon, Wash.		AP-H-213	WaP
Redspur		Yakima, Wash. 1954	Fr. colors v. early, re- sembles well-colored Richared. Short internodes makes tree 2/3 standard, similar to Okanoma & Starking Del.		KaM
Red Standard		USSR, 1934	Fr. dull red, poor qual. Tree well shaped, hard. Bark & wood red.		SdC
Red Stark					CnS
Red Stark		Found at AES, Geneva, N.Y.	Mut. of Stark Earliest.		NyG

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Red Thorle		Fr. Res. Orch., New Zealand 1961			NyG
Red Tip	148497	Canada 1944	M. ioensis X pumila.		MdG
Red Tip	148497	Glenn Dale, Md.	M. ioensis X M. pumila var. Niedz. Plt. shows char. of both parents. New growth shows tip killing. Fr. sm. cherry size w. red flesh. Foliage reddish.		NjB, PaU
Red Tip		AES, College Sta., S.D.			SdC
Red Tip		AES, Excelsior, Minn.	Neg. on R-12740-7A.		InL*
Red Tomkins King					NyG
Red Transparent	199095	Denmark 1951	Red sport of Yel. Transp.		MdG
Red Transparent	199095	Glenn Dale, Md.			NyG, NjB, OhW
Red Twenty Ounce, Anderson		AES, Geneva, N.Y.			NjB
Red Twenty Ounce, Horton		AES, Geneva, N.Y.			NjB
Red Van Buren		B. D. Van Buren, 1919 N.Y.	Fr. med.-lge., cov. w. attrac. stripes. Flesh soft, sl. acid. Fair. Mid.-Aug.		NyG
Red Virginia		Summit Nurs., Stillwater, Minn.		A41122	WyC

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Red Warrior		Bountiful Ridge Nurs., Princess Anne, Md.	Fr. lge., rnd.-conic., attrac. dk. red. Flesh lt. yel., soft, sa. Fair qual. Prod. Late Sept. Possible canning var.	A5582	WyC NyG, OhW
Redwell		AES, Excelsior, Minn.	Op. sdlg. of Scott's Winter. Fr. lge., rnd., almost cov. w. stripes. Flesh semi-firm, nearly wh., sa. Fair dess. & culin. Mid.-Oct. Annual bearer.	AP-H-119	MeO, NyG, WiS, IUU, OrC WaP
Redwell		Andrew's Nur., Faribault, Minn.		11112	NdF, MiG, OhW NdM
Redwell					SdC
Redwell		AES, College Sta., Ames, Ia.			IoA
Red Wild Crab		AES, College Sta., S.D.	Fr. red over yel., poor qual. Late Sept. Hardy.		SdC
Red Willow Twig		R. C. Anderson, Kansas City, Mo. 1956	Mut. of Willow Twig. Resembles parent except for dk. skin color.		NyG
Red Wine			Fr. attrac. blush, good qual. Early. Hardy.		MnS
Red Wing		C. L. Miller, N.Y. 1940	Fr. med.-lge., rnd.-conic., cov w. attrac. stripes. Flesh nearly wh., semi-firm, sa. Good dess. Mid.-Oct.		NyG
Red Wing		Wedge Nur., Albert Lea, Minn.		A33497	WyC
Red Wing					SdC

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Red York (Colora)		Bountiful Ridge Nur., Princess Anne, Md. 1957	Mut. of York Imperial. Red, winter processing.	31	MoC
Register		Hood River, Ore. Marble Co. Agt. 1948			OrC
Regina della Renetta	104745	Glenn Dale, Md.			NjB
Reid's Seedling	206031	Ireland 1953			MdG
Reid's Seedling	206031	Glenn Dale, Md.	Fr. med.-lge., rnd,-oblate, 60% splashed red. Flesh firm, lt. cream, sa., good. Early Sept.		NyG, InL
Reinar	101886	Glenn Dale, Md.	Fr. sm., rnd., oblate, all cov. w. v. dk. red. Flesh soft, astr., poor. Late Aug.	A34628	WyC InL
Reine des Hatives	158736	France 1947			MdG
Reine des Hatives	158736	Glenn Dale, Md.	Early summer, late blooming cider apple.		NjB, MiG
Reine des Pommes	131113	France 1938			MdG
Reine des Pommes	131201	France 1938			MdG
Reine des Pommes	132571	France 1939			MdG
Reine des Pommes	132571	Glenn Dale, Md.	Fr. med., russet, v. astr. Worthless. Early Oct.		NyG, NjB, MiG
Reine des Pommes	246362	England 1958			MdG
Reine de Pommes #600		Arlington Farm, Va.		A3043	WyC

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Reinecke		1943			OrC
Reineta Encarnada	245144	Glenn Dale, Md. Orig. from Spain		AP-H-366	WaP
Reinette D' Angleterre	131341	France 1939			MdG
Reinette d'Anjou	105523	Glenn Dale, Md.			InL
Reinette d'Armerique	188606	France 1950			MdG
Reinette d'Armerique	188606	Glenn Dale, Md.	Weeping tree habit, high vitamin.		
Reinette de Chenée	131828	France 1939			MdG
Reinette d'Espagne	126501	France 1948			MdG
Reinette de Garavia	105524	Spain 1934			MdG
Reinette de Granville	126502	France 1948			MdG
Reinetta d'Inghilterra	102552	Italy 1933			MdG
Reinetta Encarnada	245144	Spain 1958			MdG
Reinette de Madere	132472	France 1939			MdG
Reinette Doree de Versailles	136603	France 1940			MdG
Reinette do Canada					PaU
Reinette Jaegers	131561	Belgium 1939			MdG
Reinette Jamin	135645	France 1939			MdG

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Reinette Jaune de Butzel	131978	Belgium 1939			MdG
Reinette Jules Labitte	127369	France 1938			MdG
Reinette Tres Tardive	162741	France 1948			MdG
Reinette Van Ekenstein	188521	Netherlands 1950			MdG
Renet Beggamotnyi	259454	Poland 1959			MdG
Reneta Woskowa	132830	Poland 1939			MdG
Rennetta Dorata	104034	Italy 1934			MdG
Renown	131081	England 1938			MdG
Renown		Patmore Nur., Manitoba, Can.		A49316	WyC
Repinaldo de Liebana	105528	Spain 1934			MdG
Repka Kislaga		AES, Mandan, N.D.	8/lb., rnd., oblate, yel., banana flavor, soft. Fair. Early Aug. Sev. blight. Hardy.		NdM
Repka Kislaga		Stevenson Bros., Manitoba, Canada		A33870	WyC
Rescue	151721	Canada 1945			MdG
Rescue		Canada Exp. Farm, Manitoba, Canada	Blushed Calville op. Lge. (18/lb.) crabapple, red blushed over yel., juicy, v. good qual. V. early Aug., hardy, prod. Blight resist.	N4048	MnS NdM

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Rescue		Skinner's Nur. Ltd., Canada			AKP
Rescue		Boughen Nurs., Manitoba, Canada		A49416	WyC
Reta		AES, Fargo, N.D.	Blight suscept.	11373 N577	NdM MnS
Rev. W. Wilkes	123965	Glenn Dale, Md.			InL
Reward		Skinner's Nur. Ltd., Canada		A51302	WyC
Rheinischer Krummstiel	105403	Italy 1934			MdG
Rhoda		Clinton Falls Nur., Owatonna, Minn.		A32445	WyC
Rhoda		Albert Lea, Minn. 1927	Fr. sm., rnd.-conic., dk., splashed red. Flesh soft, nearly wh., sl. acid. Qual. fair. Late Sept.		NyG
Rhode Island Greening		W. T. Smith Co. 1897	Fr. med.-lge., rnd.-oblate. Skin mod. thick, tough, smooth, waxy, gr.-yel. Flesh yel., firm, crisp, tender, juicy, rich, sa. V. good qual. Tree lge., vig.		NyG
Rhode Island Greening		C. Keukelaar, Williamson, N.Y. 1953	Triploid.		NyG
Rhode Island Greening		Maine Apple Tree Pool			MeO
Rhode Island Greening		Greening Nurs.			OhW

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Rhode Island Greening		Iowa St. Univ., Ames, Iowa			IoA
Rhode Island Greening				166	VtB NjB, PaU, CnS, MiE, IUU
Ribston		R. C. Anderson, Kansas City, Mo. 1956	Fr. med.-lge., broad, rnd., unif. Skin smooth, sl. russet. Flesh yel., firm, v. crisp, juicy, arom., rich, sa. V. good dess. Nov.- Jan. Tree vig., lge. Triploid.		NyG
Richards Graft			Fr. med.-lge., oblate to oblong, gr. w. red stripes, good flavor.		OhW
Richland		Wyndmere, N.D.			NdF
Rlene des Reinettes	224550	Glenn Dale, Md.		A5795	WyC
Riner Seedling		Chance sdlg. near Riner, Va.	Fr. near solid bright red, good finish. Ripens w. Yel.Transp. Flavor v. tart. Culin. qual.		VaB
Ringstad	102146	Glenn Dale, Md.	Fr. highly colored, good finish, attrac., good text., qual., & flavor. Mid.-Aug.	N517	VaB MnS
Ringstad			Positive on R-12740-7A.		InL*
Rival	104734	Glenn Dale, Md.	Sdlg. of Peasgood Non-such. Fr. med.-lge., rnd., flattened, skin gr.-yel. w. deep red blush, few stripes, sl. russet. Flesh wh., firm, juicy, good dess. Oct.-Dec.		NjB, NyG

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Riverside Seedless		AES, Riverside, Calif. 1951			OrC
Robert Nairn Crab					PaU
Robin Crab		Skinner's Nur. Ltd., Manitoba, Canada			AKP
Robin			M. baccata X Simbrisk #9. Rootstock clone.		MnS
Rome					MiE
Roman Stem		R. C. Anderson, Kansas City 13, Mo. 1956	Fr. med. size. Skin wh.- yel., often blushed. Flesh juicy, arom., sa., v. good qual. Dess. Mid.-autumn to mid-winter.		NyG
<u>Rome Sports</u>					
Ady Red Rome		Ady Orch., Fruitland, Ia.		AP-H-353	WaP
Applegate Beauty		Bountiful Ridge Nur., Princess Anne, Md.	Another Rome Beauty, not well colored so far at Wooster.		OhW
Applegate Red			Pos. on R12740-7A		InL*
Australia Rome		Oscar Nobelins, Nome Warren, Victoria, Australia 1929	Rome type, but better color.		NyG
Baillie		Benwick Baillie, Suffern, N.Y. 1931	Simil. if not ident. w. Rome Beauty. Possibly sl. more red color.		NyG

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<u>Rome Sports</u>					
Barkley		Van Well Nur., Wenatchee, Wash. 1955	Rome type, colors earlier & dkr. Broad striping, prominent even at maturity.	17	NyG, PaU, MoC
Barkley Beauty			Pos. on R-12740-7A.		InL*
Barkley Red		George Barkley Mansion, Wash.		AP-H-29 M-726	WaP WaM*
Barkley Red		Van Well Nur., Wenatchee, Wash. 1945			OrC
Barkley Red Beauty		Van Well Nur., Wenatchee, Wash.			MiG
Beauty		Van Well Nur., Wenatchee, Wash.			OhW
Beauty		George Barkley, Mansion, Wash.		AP-H-30 M-727	WaP WaM
Beauty		Maine Apple Tree Pool	Non-bearing trees.		MeO
Beauty		M. F. Pierson, Stanley, N.Y. 1904	Fr. med.-lge., rnd. or rnd.-conic., usually symmetrical. Skin thick, tough, smooth, yel., mottled w. brt. red. Flesh nearly wh., firm, crisp, juicy, sl. arom., mild, sa. Good. Dec.-Apr. or later. Tree med.		NyG

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<u>Rome Sports</u>					
Beauty		Bountiful Ridge Nurs., Princess Anne, Md.	Fr. med.-lge., oblate, gr.- yel., red streaked. Flavor fair.		OhW
Beauty	199694	Denmark 1952	Glengyle Red Strain.		MdG
Beauty				174	VtB PaU, NjB, IU
Beauty			Pos. on R-12740-7A.		InL*
Beauty Double Red		Earle C. Cowin Orch., Wapato, Wash.		AP-H-69	WaP
Best Red		J. H. Best Orch., Yakima, Wash.		AP-H-143	WaP
Carlson Red		John Carlson, Wiley City, Wash.		AP-H-294	WaP
Clifton		AES, Geneva, N.Y.			PaU
Clifton		L. F. Clifton, Memphis, Y.Y. 1921	Rome type. Brt. red blush.		NyG
Clifton Red		AES, Geneva, N.Y.		AP-H-379	WaP OhW
C & O Red		C. & O. Nur., Wenatchee, Wash.	Red Rome, showing some streaks.		OhW
C & O Red 262		P.S.U. Orch.			PaU
Conical Rome		G. France, Yakima, Wash. 1933	Splashed stripes, attrac.		NyG

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<u>Rome Sports</u>					
Cowin Red		Stark Bros. Nur., Louisiana, Mo.			PaU
Cowin Red		Robert Cowin, Wapoto, Wash.		AP-H-94 M758	WaP WaM*
Cox		C. Templeton, Chesapeake, Ohio 1938	Red sport of Rome Beauty. Color much better than parent.		NyG
Cox Red		P.S.U. Orch.			PaU
Dalzell		AES, Ithaca, N.Y. 1939	Red sport of Rome Beauty. Color much better than parent.		NyG
Double Red		Stark Bros. Nur., Louisiana, Mo. 1940	Rome type, tends to flatness, solid blush or sl. stripe.		NyG
Double Red			Pos. on R-12740-7A.		InL*
Gallia Beauty		Pacific Coast Nurs., Sunnyside, Wash.		AP-H-123 M766	WaP WaM*
Gallia Beauty		Bountiful Ridge Nur., Princess Anne, Md.	Fr. med.-lge., brt. red., oblate. Flavor fair.		OhW
Gallia Beauty			Winter. Late Blooming. Pos. on R-12740-7A.	177	NjB VtB InL* CnS, IlU, PaU, InL
Gallia Beauty		W.M. Swartzwaldes, Gallipolis, Ohio 1925	Rome type, but bolers earlier & dkr. Blush or solid type.		NyG

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<u>Rome Sports</u>					
Glorier		Mont Glorier, Valle Crucis, N. Carolina 1944	Ident. w. Rome Beauty, except more red color, 90% stripe, Fairly attrac. but less so than Clifton Rome.		NyG
Grogan		F. N. Hewetson, Arendtsville, Pa.			PaU
Hotbe		AES, Ithaca, N.Y. 1938	Red sport of Rome Beauty. Color much better than parent.		NyG
H.T.O. Red		Hill Top Orch. & Nur., Hartford, Mich.		AP-H-387	WaP
Kelly		AES, Newark, Del.			PaU
Large		Clifford Wright, Gleed, Wash.		AP-H-178	WaP
Law		Stark Bros., Nur., Louisiana, Mo. 1961	Rome type, colors earlier & dkr. Brt. red, blush.		NyG
Law		AES, Kearneysville, W. Va.			PaU
Law Red		Law Orch., Tonasket, Wash.		AP-H-72 M747	WaP WaM
Loop Giant		H. L. Loop, North East, Pa. 1931			NyG

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<u>Rome Sports</u>					
Loop Red		H. L. Loop, North East, Pa. 1931	Fr. lge., oblate, 100% attrac. stripes. Flesh creamy, firm, sa., sl. astr. Fair qual. Late Oct.		NyG
Loop Striped		H. L. Loop, North East, Pa. 1934	Ident. w. Rome Beauty, except more red color. Not superior to Rome Beauty.		NyG
Miller's Ruby Red Beauty		Milton Nurs., N.Y. 1941			OrC
Mills		Charles H. Mills, Sodus, N.Y. 1935	Rome type. Skin solid red blush. Clifton Rome is more attrac.		NyG
Nero		C & O Nurs., Wenatchee, Wash.	Rome type, colors earlier & dkr., definite stripes. Clifton Rome is more attrac.		NyG, PaU
Nero Red		C & O Nurs., Wenatchee, Wash.	Earlier, deeper coloring. Fr. shape Rome apple.	56	MoC OhW, OrC, MiG
Nero Red		Robert S. Lemke, Tieton, Wash.		AP-H-35	WaP
Nero Red		Robert Lemke, Naches Heights, Wash.		AP-H-35 M-731	WaP WaM
Nero Beauty			1 clone pos. on R-12740-7A and 1 clone neg.		InL*
Ohio Dark Red		Ohio			OrC
Ohio Dark Red					I1U

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<u>Rome Sports</u>					
Ohio Red		P.S.U. Orch.			PaU
Red		May Nurs. Co., Yakima, Wash.	Discovered in 1931. Fr. lge., solid red.		KaM, PaU
Red		N.Y. St. Fr. Test. Assoc., Geneva, N.Y. 1957	Red sport of Rome Beauty.	31	MoC
Red		Maine Apple Tree Pool	Non-bearing trees.		MeO
Red					NjB, CnS, ILU
Red		AES, Wooster, Ohio	A red Rome Beauty.		OhW
Red #262		C & O Nurs., Wenatchee, Wash.			MiG
Red Australian Beauty	214080	Denmark 1954			MdG
Red Australian Beauty	214080	Glenn Dale, Md.		AP-H-256	WaP OrC
Red Beauty		Lake Shenandoah Nurs., Shenandoah, Ia. 1956	Solid red winter apple.	14	MoC
Red Beauty		Inter-State Nurs., Hamburg, Ia.			IoA
Ruby		Milton Nurs. Co., Milton, Ore. 1932	Rome type. Brt. red color. Blush or solid type.		NyG
Ruby Red		O. F. Hubbs, Milton- Freewater, Ore.		AP-H-50 M738	WaP WaM

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<u>Rome Sports</u>					
Scarlet Queen		Don Robertson, Norwalk, Ohio	Bud sport. A redder Rome Beauty.		OhW
Seeando Red		C & O Nurs., Wenatchee, Wash.			OrC
Seeando Red #262		C & O Nurs., Wenatchee, Wash.		AP-H-21 M-720	NjB WaP WaM InL*
			Pos. on R-12740-7A.		
Smith Beauty					InL
Standard Beauty			Questionable virus index.		InL*
Stark		H. S. Loop, North East, Pa. 1930	Rome type, fr. all red, colors earlier.		NyG
Sundquist Red No. 1		Ralph Sundquist, Selah, Wash.		AP-H-142	WaP
Sundquist Red No. 2		Ralph Sundquist, Selah, Wash.		AP-H-275	WaP
Swanson		Clarence Swanson, Peshastin, Wash.		AP-H-308	WaP
Taylor Red		Alvah Taylor, Selah, Wash.		AP-H-344	WaP
Williams Red		Holtzinger, Schuler Canyon		AP-H-32 M729	WaP WaM
Worthen Red		Worthen Orch., West Naches Hghts., Naches, Wash.		AP-H-134	WaP

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<u>Rome Sports</u>					
Wright		H. S. Loop, North East, Pa. 1930	Rome type, but colors better. Predominantly blush type.		NyG
Wright Red		Clifford Wright, Gleed, Wash.		AP-H-98	WaP
Robert Nairn	106241	New Zealand 1934	Fr. sm., orange-yel.		MdG
Robin		Boughen Nurs., Valley River, Manitoba, Can.	Siberian Crab X Simbirsk No. 9.	A32954	WyC
Robin			Siberian Crab X Simbirsk No. 9. 18/lb., orange-red, oblate, ribbed, tart, juicy. Blight suscept. Late Sept. Hardy.		NdM
Rondo		Dominion Exp. Farm, Morden, Manitoba, Can.	Salome sdlg. Fr. 90/lb., oblate, juicy, firm, tart, astr., stores well. Late Sept. Blight resist. Hardy, attrac. red crab.		NdM
Rosendale	203227	Rosendale, Md. 1952			MdG
Rosendale				B38069 B38070	PaU MdG MdG
Rosilda		Dominion Exp. Sta., Morden, Manitoba, Canada	Prince X McIntosh. Fr. 12/lb., oblong, attrac. red, tart-sa., good eating; gets soft. Blight resist. Mid.-Aug. Hardy.	A36753	WyC
Ross Nonpareil	205399	Ireland 1953			MdG

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Rosseau		Glenorchie Farm, Miami, Manitoba, Can.		A36756	HyC
Rosthern #15		Boughen Nurs., Valley River, Manitoba, Can.		A51266	AKP WYC
Rosthern #16	148483	Canada 1944			MdG
Rosthern #18	144027	Canada 1942			MdG
Rosthern #18	144027	Glenn Dale, Md.			MdG
Rosthern #18-#19		Boughen Nurs., Valley River, Manitoba, Can.		A55215 A55216	WYC
Rosthern #21	144028	Canada 1942			MdG
Rosthern #22	144029	Glenn Dale, Md.		24	VtB
Rosybloom		Farmer Seed & Nurs. Co., Faribault, Minn.	Hardy; lvs. highly colored in fall,	11257	NdM
Roter Bellefleur	13200	Germany 1939			MdG
Roter Boskoop		Thomas Mannseichner, Pfaffenhoffen /Ill., Bavaria, Germany		N4852	MnS
Rott Jarnapple	102148	Sweden 1933	Skin gr.-brt. red w. sm. yel. dots. Culin. Late Oct.-Apr.		MdG
Rouge de Boskoop		Glenn Dale, Md. 1954	Ident. w. Belle de Boskoop except more red color. 90% splashed orange & red.		NyG
Rougemont	141243	England 1941			MdG
Rousse Latour	136604	France 1940			MdG

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Roxbury		Ellwanger & Barry, Rochester, N.Y. 1883. V. old var. orig. Mass. early 17th century.	Fr. med.-lge., rnd.oblate- oblate conic. Skin tough, cov. w. gr.-yel. brown russet. Flesh tinged w. yel., firm, tender, juicy, sa., good. Dec.-Apr. or longer. Tree above med. vig.		NyG
Roxbury Russet		H. & W. Nursery	Fr. med., oblate, gr.-yel., russeted, flavor good.		OhW
Roxbury Russet		AES, Geneva, N.Y.			InL
Roxbury Russet				175	NjB, MiE, CnS, PaU VtB
Royal Jersey	175545	England 1949			MdG
Royal Jubilee	123966	England 1937			MdG
Royal Jubilee	123966	Glenn Dale, Md.	Fr. med.-lge., conic. & sl. ribbed. Skin lemon yel., splashed w. dull orange blush. Flesh yel., firm, sa., good. Culin. Oct.-Nov. Tree med.-sm., vig.		NyG, InL
Royal Wilding	150650	England 1945			MdG
Royal Wilding	150650	Glenn Dale, Md.			NjB, MiG
Royale d'Angleterre	136605	France 1940			MdG
Ruby		AES, Wooster, Ohio	Starking X Gallia Beauty. Fr. lge., oblong, dk. red. Flavor fair.		OhW, WiS

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Ruby		AES, Wooster, Ohio	Gallia Beauty X Starking. Fr. med., rnd., all dk. blush. Flesh firm, cream, sl. acid. Good culin., fair dess. Long stor. Tree late bloom., young bearing.	AP-H-152 140	KaM, NjB, NyG, CnS, OrC WaP VtB
Ruby		AES, Geneva, N.Y.		34	MoC MiG
Ruby		Bountiful Ridge Nurs., Princess Anne, Md.		A5740	OrC
Ruby			2 yrs. neg. on R12740-7A.		PaU
Ruby Gem	133518	Australia 1939			MdG
Rudolph Crab	231304	Canada 1956	Fr. juicy, good sauce. Tree hardy & v. prod.		MdG
Russian White		Russia			SdC
Ruhm von Kirchwarder	126588	Germany 1938			MdG
Safstaholm	199421	England 1952			MdG
Safstaholm	104811	Sweden 1934			MdG
Safstaholm	157212	Finland 1947			MdG
Saib	220529	Glenn Dale, Md.	From seed. Sm. apple from Afghanistan. May have root- stock value.		MoC
St. Anne Rode Boskoop	223666	Netherlands 1955			MdG
St. Cecelia	125269	England 1937			MdG

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St. Everard	123732	England 1937			MdG
St. Laurent	136367	France 1940			MdG
St. Laurent	158739	France 1947			MdG
St. Lawrence		Plumfield Nurs., Fremont, Nebr.		A35170	WyC
St. Lawrence Winter	142465	Canada 1941			MdG
St. Martin	200781	France 1952			MdG
Salome		Sherman Nurs. Co.		A48211	WyC
Salome		Hort. Field Sta., Cheyenne, Wyo. 1956	Not fruited to date.		NyG
Salome			A late maturing winter apple of poor qual.		SdC, PaU
Saltcote Pippin	123967	England 1937			MdG
San Antonio	219777	Glenn Dale, Md.		AP-II-202	WaP OrC
Sandling	123751	England 1937			MdG
Sandon					MdG
Sandon		Centr. Exp. Farm, Ottawa, Canada 1912. Introd. 1899.	Northern Spy sdlg. Fr. med.-lge., rnd.-conic., cov. w. stripes. Flesh semi-firm, yel. cream, sa., sl. astr. Good. Early Oct.		NyG
Sandow		W. H. Perron & Co. Ltd., Quebec, Canada		A52287	WyC

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Sadow		Centr. Exp. Farm, D. S. Blair (1948)			OrC
Sadow					NjB
Sandringham	157735	England 1947			MdG
Sangrado		M. Sharpe, Vacaville, Calif. 1939	Fr. sm., rnd., 1/4 dull pink blush on gr. grnd. Flesh semi-firm, cream. Sl. acid. Late Oct. Worthless.		NyG
San Jacinto		Texas Nur. Co., Sherman, Texas 1914	Fr. med., conic., 100% dk. red stripes. Flesh med., firm, wh., sa. Poor, Late Sept.		NyG
Sarak (#1803)	119898	India 1937	Sweet yel. crab w. red cheek; 1-1/2" diameter.		MdG
Saratoga		AES, Geneva, N.Y.	Ben Davis X Green Newton. Fr. med., rnd.-oblate, 1/2 striped. Flesh cream, semi- firm, acid. Fair. Late Oct.		NyG
Saska		AES, College Sta., S.D.	Hibernal X Gravenstein. Fr. yel., oblate, fair qual. Tree hardy, vig. Severe blight.		SdC
Saska		John Robertson, Hot Springs, S.D.	Chance sdlg. of unknown parentage.	A31225	WyC
Saugahatchee		Gray Stone Nurs., Loachapoka, Fla. 1956			NyG
Scarlet Bramley	203816	Glenn Dale, Md. 1959	Has not fruited at Wooster.		OrC, OhW, MeO

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Scarlet Bramley					CnS
Scarlet Crofton	203817	Ireland 1953			MdG
Scarlet Crofton	203817	Glenn Dale, Md.	Fr. med.-lge., oblate, almost cov. w. stripes, Flesh semi-firm, cream, sa., fair. Late Sept. Prob. no comm. value.		NyG, InL
Scarlet Crofton	206033	Ireland 1953			MdG
Scarlet King		Robert Nitschke, Birmingham, Mich. 1958	Bud mut. of Thompkins King.		NyG
Scarlet Nonpareil	126879	England 1938			MdG
Schellinkhout	188523	Netherlands 1950			MdG
Schellinkhout	188523	Glenn Dale, Md. 1956	Fr. lge. conic., cov. w. dull splash red, unattrac. Flesh wh., soft, sa. Fair qual. Late Sept. No value.		NyG
Schelred		Clarence Schell, Cashmere, Wash.		AP-H-26 M724	WaP WaM
Schlimmer		AES, St. Paul, Minn.		A35681	WyC
Schone Van Iephof	188522	Netherlands 1950			MdG
Schoner Aus Itzstedt	131011	Germany 1938			MdG
Schoner Aus Miltenberg	125768	Glenn Dale, Md. 1956	Fr. lge., oblate, 90% blush. Flesh semi-firm, cream, sa., Fair qual. Late Sept.		NyG

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Schoner Aus Nordhausen	125769	Glenn Dale, Md.	Fr., sm.-lge., variable, 1/4 dull pink blush on gr. grnd. Flesh firm, cream, sa, Non-oxidizing, Fair qual. Early Oct.	N5110 A48297	NyG, NjB MnS WyC
Schoolmaster	127018	Glenn Dale, Md.			InL
Scott Winter		Ca. 1864, Newport Vt. AES, Ithaca, N.Y. 1956	Fr. med.-sm., rnd.-conic, to rnd.-oblate. Skin smooth, thin, pale yel. or grn., cov. w. brt. red; dkr. stripe. Flesh tinged w. yel., firm, crisp, tender, v. juicy, sa., arom. Good. Dec.-May. Tree med.-lge., vig.		NyG
Scott Winter		Shenandoah Nurs., Shenandoah, Ia.		A34187	WyC
Scugog	128412	M. B. Davis, Ontario, Canada 1938		A38685	WyC
Scugog	141873	Canada 1941			MdG
Scugog	162974	Canada 1948			MdG
Scugog	162974	Glenn Dale, Md.			NjB
Scugog		O. H. Will, Bismarck, N. Dak.	Malus pumila var. Niedzwetzkyana sdlg. Fr. 12/lb., red, red flesh, rnd., juicy, good jelly crab, tart. Flowers red. Tree blight suscept; hardy. Mid.-Sept.		NdM
Scugog		Canada Exp. Farm, Manitoba, Canada	Red-fleshed crab.	N37111	MnS

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Scugog		Brand Peony Farms, Faribault, Minn. 1950		28	VtB
Secor		Hort. Field Sta., Cheyenne, Wyo. 1956	Not fruited to date.		NyG
Secor		AES, Ames, Iowa	Salome X Jonathan.		NjB, MiG, IoA, WiS, MiE, SdC
Secor		Snyder Bros. Inc., Center Point, Iowa		A34393	WyC, MeO
Seestermucher Zitronenapfel	131010	Germany 1938			MdG
Semla		AES, College Sta., S.D.	Op. sdlg. of Wolf River. Hardy tree bearing poor qual. fr.		SdC
Senator		Stark Bros., Louisiana, Mo.		A341259	WyC
Sensacion	105531	Spain 1934			MdG
September		Fr. Breeding Farm, Excelsior, Minn. 1888	Fr. med.-lge., (for crab) rnd., oblate, sl. oblong. Skin thin, tender, smooth, gr.-yel. striped w. red. Flesh tinged w. vel., tender, juicy, sa., good qual. Sept. Tree vig.		NyG
Severinii Bujon		USSR 1934			MdG
Sharon		Sherman Nurs., Charles City, Ia. 1956			NyG

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Sharon		AES, Ames, Iowa	McIntosh X Longfield. Fr. med., striped & blushed. Flesh firm, wh.-cream, sa., v. arom. Qual good. Late Sept. Tree hardy, prod., biennial bearer; fr. drops easily. Tends to overbear.	N3523	MnS MiG
Sharon		Earl Ferris Nurs., Hampton, Iowa			OhW
Sharon		Mt. Arbor Nurs., Shenandoah, Ia.		A32250	Wyc
Sharon		1943			OrC
Sharp's Early	133569	Australia 1939			MdG
Sharp's Nonsuch					PaU
Shaw		AES, Wooster, Ohio 1938	Fr. med.-sm., 3/4 stripes on gr. grnd. Unattrac. Flesh semi-firm, grn.-cream, sa., fair. Late Oct. Late blooming.		NyG
Shaw Ribston		P. J. Shaw, Agr. Coll., Truro, Nova Scotia 1921	Ident. w. Ribston except better red color.		NyG
Shelred			Pos. on R-12740-7A.		InL*
Shelred		C & O Nurs., Wenatchee, Wash. 1955	Fr. sm., conic., cov. w. stripes. Flesh yel.-cream, sa., sl. astr. Fair. Early Oct.		NyG
Shelred		1954			OrC

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Sheriff		Loveland Nur. & Orch., Loveland, Colo.	Russian origin.	A32209	WyC
Sheriff		AES, E. Lansing, Mich. 1937		B-27316	MdG
Sherrington Norman	175546	England 1949			MdG
Sherrington Norman	175546	Glenn Dale, Md.	Cider apple.	1	NjB MoC
Shiawassee		Vernon, Schiawassee County, Mich. ca. 1850 R. C. Anderson, Kansas City, Mo. 1956	Fr. med.-lge., oblate-conic., reg. Skin pale yel. usually overspread w. attrac. red, splashed w. carmine. Flesh wh., fine, crisp, tender, juicy, sa., arom., good. Oct.-Jan. Tree med., vig.		NyG
Shiawassee					MiE
Shield Crab		C. E. Moyer, Roseburg, Oregon		A34174	WyC
Shin-Indo		Glenn Dale, Md. 1953	Indo X G. Delic. Fr. med., often sm., conic., 1/4 blushed. Flesh yel.-cream, sweet. Fair. Late Oct.		NyG
Shin-Indo	195835	Glenn Dale, Md.			CnS
Shinko	195836	Japan 1951	Fr. sm'r. either parent, rnd, or rnd.-oblate. Skin coarse, waxen, dull br.-red stripes or blush on yel.-gr. scurf-skin. Flesh resembles Jon. Good. Mid. July- Jan. Tree resembles Ralls but flowers early.		MdG

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Shinko	195836	Glenn Dale, Md. 1953	Ralls Janet X Jonathan, Fr. med.-sm., rnd., striped. Flesh cream, semi-firm, sa., good, Early Oct.		NyG, CnS
Shinko			2 yrs. neg. on R-12740-7A.		InL
Shinsei	199533	Japan 1952			MdG
Shinsei	199533	Glenn Dale, Md. 1954	G. Delic. X Early McInt. Fr. med.-lge., conic., lt. yel. Flesh semi-firm, wh., sa., good. Fr. drops. Early Oct. Short stor.		
Shinsei			2 yrs. neg. on R-12740-7A. Golden Delic. X Early McI. Fr. sm. than either parent, rnd.-oblate, conic., often irreg. Skin smooth waxen, dull sa., russet. Gr.-yel., blushed pink on exposed cheek. Flesh wh., firm, fine, juicy, arom. Early Oct. Tree med., upright spreading.		InL*
Shockley		Fruitland Nur., Augusta, Ga.		A341314	WyC
Shoko		AES, S.D.	Malus ioensis var. Elk River X Alexander. Gr., acid fr. of poor qual. Tree v. prod.		SdC
Siberian Crab	148421	N.D. 1944			MdG
Siberian Crab		O. H. Will & Co., Bismarck, N.D.		A36572	WyC

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Siberian Crab (large)		Milton Nur., N.Y. 1941			OrC
Siberian Red Crab		Skinner's Nur., Ltd. Canada 1956-1958	Hardy, vig., never shown winter injury.		AKP
Siberian Yellow Crab		AES, Brookings, S.D.	Unknown. Hardy rootstock.	N5012	MnS
Siberian Yellow	141215	England 1941			MdG
Signe Tillisch	105132	Plant Intro. (Italy 1934)			InL
Signe Tillisch	105132	Italy 1934			MdG
Sikkim Crab	80646	France 1929	Fr. pear-shaped, sk. red w. paler dots, about 1/2" wide. Sm. tree, bush habit which grows wild in the interior of Sikkim, India, at altitudes up to 10,000 ft.		MdG
Sikora (Type #1)	205559	Germany 1953			MdG
Silas Wilson		Sherman Nur. Co., Charles City, Ia.		A34593	Wyc
Silvercup	175547	England 1949			MdG
Silvia		Boughen Nur. Co., Valley River, Manitoba, Canada	Siberian Crab X Yellow.	A32955	Wyc
Silvia		Ottawa, Canada	Fr. 16/lb., yel., yel. flesh, tart, astr., oblong-conic., resembles a lemon. Mid.-Aug. Blight resist., hardy, vig.		NdM

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Simbirsk		Stevenson Bros., Morden, Manitoba		A32788	WyC
Simcoe	148709	Canada 1944	M. X adstringens.		MdG
Sir Isaac Newton	238790	England 1957			MdG
Sir Isaac Newton	238790	Glenn Dale, Md.		AP-H-293	WaP
Sir Isaac Newton	245324	England 1958			MdG
Sissipuk	148500	Glenn Dale, Md. 1948	Fr. sm., ribbed, cov. w. dk. blush, oblate. Flesh crisp, red, v. astr. Early Oct.		NyG
Sissipuk	128417	M. B. Davis, Ottawa, Ontario 1938		A38690	WyC
Sissipuk	148500	Glenn Dale, Md.	M.pumila var. Niedzwetskyana X baccata.		MiG
Skinner		Leonard Coates Nur., San Jose, Calif. 1931	Fr. sm., grn.-yel.; flesh lt. yel., firm, sa. Mid.- Sept.		NyG
Skyrme's Kernel	161846	England 1948			MdG
Slocan	148719	Canada 1944			MdG
Slovianka	107251	USSR 1934			MdG
Smokehouse					NjB
Smokehouse					PaU

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Smokehouse		Lancaster County, Pa. ca. 1837. R. C. Anderson, Kansas City, Mo. 1956	Fr. med.-lge., uniform size and shape. Rnd.-oblate, or sl. conic. Skin thin, tough, smooth, yel. or grn.w. dull red. Flesh sl. tinged w. yel., firm, crisp, juicy, sa., arom. Good Oct. to Feb. Tree med.-lge., vig.		NyG
Snomish		Stanwood, Wash.	Seedling.	AP-H-175	WaP
Snovit	232661	Sweden 1956			MdG
Snovit	238075	Sweden 1957			MdG
Snovit	238075	Glenn Dale, Md.	Stenbock X Pfirsichroter Sommerapfel. Swedish var. v. hardy in northern Sweden.	AP-H-283	NjB, NyG WaP
Snovit	247444	Sweden 1958			MdG
Snow		Mr. Davis, Corvallis, Ore. (1949)			OrC
Snow		Johnson, Green Bluff, Wash.		AP-H-136	WaP
Sokeri Miron	224611	Finland 1955			MdG
Sokeri Miron	224611	Glenn Dale, Md.		AP-H-287	WaP MiG, IlU, OrC, NyG WaW N5796 MnS 126 VtB 6 MoC A57103 WyC 11964, 12263 NdM

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Sokeri Miron					InL
Solafuente	244725	Spain 1957			MdG
Solid Red		Bunting's Nur., Selbyville, Del.	McIntosh		MiG
Sonderskov	176379	Sweden 1949			MdG
Sonderskov	176379	Glenn Dale, Md. 1953	Fr. lge., conic., 1/2 splashed red. Flesh firm, cream, sl. acid, poor. Early Sept. Discard.		NyG
Sonora					NjB
Soulard					PaU
Soulard		AES, College Sta., S.D.	Fr. gr.; of little value. Blossoms pink. Plt. dwf. w. spreading habit. Heavy foliage retained well through summer.		SdC
Soulard		Snyder Bros., Center Point, Ia.		B38395	MdG
Soulard		Shermann Nur. Co., Charles City, Ia.		A49116	WyC
Souvenir de Fernard Cognet	187062	France 1950			MdG
Souvenir de Fernard Cognet	187062	Glenn Dale, Md.	Fr. med.-lge., rnd.-oblate, 1/4 br.-red blush on gr. grnd. Fl. firm, cream, sl. acid. Late Sept. Resist. to woolly aphis.		NjB, NyG, InL

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Souvenir du Marais	122621	France 1937			MdG
Spangelo		Summit Nurs., Stillwater, Minn.	Sdlg. of Crusoe. Lge. apple.	A41117	WyC
Sparreholm	104813	Sweden 1934			MdG
Spartan	143885	Canada 1941			MdG
Spartan		Summerland Exp. Sta., Summerland, B. C., 1946	McIntosh X Newton. Fr. med., oblate, dk. red. Flesh firmer & stores longer than McI., ripens 1 wk. later. Fr. & tree McI. type.	AP-H-128	NyG, OhW, OrC WaP
Spartan		N.Y. St. Fr. Test. Assoc., Geneva, N.Y.		51	MoC MiG, IUU, NjB
Spartan		Maine Apple Tree Pool	Non bearing trees.		MeO
Spartan		Manten's Nur., White Rock, B.C., Canada 1952		137	VtB
Spartan		Harrison's Nur., Berlin, Md.		A5367	WyC
Spartan		AES, Wenatchee, Wash. B. C. Exp. Sta. 1947			OrC
Spartan			2 yrs. neg. on R-12740-7A.		WiS, CnS, PaU InL*
Spasserud	194420	Sweden 1951			MdG
Spasserud	194420	Glenn Dale, Md.		AP-H-359	WaP
Spatbluehender	231942	England 1956			MdG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Spatbluehender	231942	Glenn Dale, Md.		AP-H-284	WaP NjB, NyG
Spencer		Summerland Exp. Sta., Summerland, B. C., Canada 1946	McIntosh X Golden Delicious. Attrac., solid blush type, rnd., conic. Good dess. qual. Ripens 2-3 wks. after McI.		NyG
Spencer		AES, Orono, Maine 1960			MeO
Spicap		Central Exp. Farm, Ottawa, Canada. 1940	Northern Spy X open. Fr. sm., conic., more than 1/2 crimson stripes. Flesh gr.-cream, med.- firm, sl. acid, poor. Mid.-Oct.		NyG
Spiretta (#13-15)	113480	Canada 1935			MdG
Spitzenburg		Ed. Sturn, Yakima, Wash.		AP-H-208	WaP
Spokane Beauty		Milton Nur. Co., Milton, Oregon		A48168	WyC
Spokane Beauty		Idaho, Exp. Sta., Moscow, Idaho, 1960			NyG
Spokane Beauty		Wm. Walsh, Eagle Point, Oregon 1958			OrC
Stamared		AES, Corvallis, Ore.	Winter. Triploid.		NjB
Stark			Winter, Triploid.		NjB, PaU

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Stark		Ohio ca. 1882. R.G. Chase & Co., Geneva	Fr. med.-lge., unif. size & shape. rnd. inclined to conic. Skin smooth w. russet dots, gr.-yel., blushed & mottled w. red. Flesh yel., firm, breaking, tender, juicy, sa., good. Jan.-Apr. Tree lge., vig.		NyG
Stark Earliest		Stark Bros. Nur., Louisiana, Mo.	Fr. med.-sm., oblate, red stripes on gr.-yel. Early Aug. Good early apple.	A5380 N48106 AP-H-68 M745	NyG, NjB, CnS, OhW, IlU, OrC, InL, SdC WyC MnS WaP WaM
Stark Erliblaze		Stark Bros. Nur., Louisiana, Mo.			IlU
Stark Gold		Stark Bros. Nur., Louisiana, Mo.			CnS
Stark Jongrimes		Stark Bros. Nur., Louisiana, Mo.			SdC
Stark Red Gold		Orig. Cashmere, Wash. by F.A. Schell.	Golden Delic, X Richared, Fr. red, early, Good flavor, Tree bears early.	AP-H-56	KaM WaP
Stark Red June					KaM
Starr			Early summer; green fruit.		NjB

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Starr		Woodbury, N.Y. ca. 1865. Wm. Parry, Parry, N.J. 1896	Fr. lge.-v. lge., unif. size & shape. Oblate to rnd.-oblate. Skin thick, tough, nearly smooth, yel.-gr., w. trace of blush. Flesh tinged w. yel., firm, tender, crisp, v. juicy, sa., arom., v. good. Aug.-Sept. Tree mod. vig.		NyG
Statesman	251567	Australia 1958			MdG
Statesman	251567	Glenn Dale, Md. 1961			NyG
Stawianka	259455	Poland 1959			MdG
Stayman Winesap		Plumfield Nurs., Fremont, Nebr.		A51132	WyC
Stayman Winesap		Winesap sdlg.	Winesap sdlg. Fr. med., oblate-oblong, pale red over gr.; flavor v. good.		OhW
Stayman Winesap		Leavenworth, Kansas			KaM
Stayman Winesap		Maine Apple Tree Pool			MeO
Stayman Winesap		Carl Holman, Leavenworth, Kan.		AP-H-91 M756	WaP WaM
Stayman Winesap					CnS, NjB, OkS, MiE, IU, PaU
<u>Stayman Sports</u>					
Blaxtayman					NjB, PaU

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Stayman Sports</u>					
Blaxtayman		Bountiful Ridge Nurs., Princess Anne, Md. 1930	Stayman. Prop. restricted. Ident. w. Stayman, except more red col. V. dk. red, unattrac. No comm. value in N.Y.		NyG, OhW
Dark Red		Lake Shenandoah Nur., Shenandoah, Ia. 1956	Red sport of winter dess. var.	48	MoC
Dark Red		AES, Ames, Ia.			IoA
Double Red					InL
Early Red					PaU
Early Red		Bountiful Ridge Nur., Princess Anne, Md.	Stayman sport. Just another Stayman at Wooster.		OhW
Improved Blaxtayman No. 201			2 yrs. neg. on R-12740-7A.		InL*, PaU
Improved Blaxtayman No. 201		C & O Nur., Wenatchee, Wash.		AP-H-81 M750	WaP WaM*
Improved Blaxtayman		Bountiful Ridge Nur., Princess Anne, Md.	Another redder Stayman,		OhW
Neiplings Early Red					InL
Oregon Scarlet					NjB
Oregon Scarlet			Pos. on R-12740-7A.		InL*
Poe		John T. Bregger, Bangor, Mich. 1935	Ident. w. Stayman, except dkr. & more red col. Ripens too late for N.Y.		NyG

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<u>Stayman Sports</u>					
Red		Waynesboro Nurs., Waynesboro, Va.	A redder Stayman Winesap,		OhW
Red			Red sport of Stayman.		KaM, NyG
Scarlet Stayman		Stark Bros. Nur., Louisiana, Mo.		AP-H-66 M744	PaU, OhW, IlU, WiS WaP WaM InL*
Scarlet Stayman		P.S.U. Orchards	Stayman.		PaU
Scarlet Staymared 176185		Glenn Dale, Md. 1951	Solid red blush, ripens abt. 1 mo. before Stayman Winesap.		NyG
Stayman 66		P.S.U. Orchards	Stayman.		PaU
Staymared		Stark Bros. Nur., Louisiana, Mo.	Fr. solid red.		NyG, PaU, IlU, OhW
Staymared					PaU
Steady		J. H. Steady, Cobleskill, N.Y. 1916	Fr. lge. (for crab), rnd., oblate, cov. w. stripes. Flesh semi-firm, lt. yel., astr. Late Sept.		NyG
Stearns		C. L. Stearns, N. Syracuse, N.Y. 1900	Fr. lge., 90% splashed red. Flesh sl. soft, cream, sa., sl. astr., poor. Late Sept.		NyG
Steele's Red		Greening Nur. Co., Monroe, Mich.		A34307	WyC
Steele's Red					MiE, IlU

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Stephens		Station	Wealthy. Fr. 5/lb., rnd., red stripe, sweet-sa., excel. flavor. Late Sept. Does not stor. Hardy; mod. blight.	9784, 12005, 12041	MdG
Stephens		Great Plains Field Sta., Mandan, N.D.	Wealthy op.	N5289	MnS, NdF
Stevenson		W. W. Row, Cando, N.D.	Sdlg. of Patten. (Morden Exp. Sta. 1931)	A38875	WyC
Stevenson		Dominion Exp. Sta., Morden, Manitoba	Fr. 3/lb., oblate, med. red, tart, hard, v. late. Mid.- Oct., Improves in stor. Hardy. Lt. Blight.		NdM
Sticktyte		Stark Bros. Nur., Louisiana, Mo.			SdC
Stinson					PaU
Stirling		Dominion Exp. Sta., Summerland, B.C. Canada		AP-H-329	NjB WaP
Stirling			1 clone pos., 1 clone 2 yrs. neg. on R-12740-7A.		InL*
Stirling Castle	128363	Glenn Dale, Md.			InL
Stoke Red	161847	England 1948			MdG
Stoke Red	161847	Glenn Dale, Md.	V. late blooming, cider apple.		NjB
Stone Pippin	133750	Australia 1939			MdG
Storappel	188524	Netherlands 1950			MdG

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Storappel	188524	Glenn Dale, Md. 1956	Fr. lge., oblate, 1/2 dull blush. Late Sept.		NyG
Strathmore		Andrews Nur., Faribault, Minn.	Erect growth, attrac., ht. 11', spread 4'; wh. blossom.	11631	NdM
Strawberry		J. B. Bailey Nur., St. Paul, Minn.		A34507	WyC
Strawberry			Fr. 15/lb., oblate, red striped, juicy, tart. Mid.- Sept. Hardy; some blight.		NdM
Strawberry Norman	131602	Glenn Dale, Md.		23	VtB MiG
Strawberry Pippin	133751	Australia 1939			MdG
Striped Beaufin	141246	England 1941			MdG
Striped Transparent			Yellow Transparent.		PaU
Stubbard	125270	England 1937			MdG
Sturmer Pippin		E. Oldfield, Onehinga, Auckland, New Zealand 1927	Ribston Pippin X Nonpareil. Fr. lge., rnd., conic. Skin thick, yel.-gr. w. brownish blush, acid, sl. russet. Flesh yel., v. firm, crisp, mod. juicy, pleasant flavor, good. Late winter-early spring. Tree med. size.		NyG
Subtropical	241999	Australia 1957	A subtropical apple.		MdG
Success		Jewell Nur. Co., Long Lake, Minn.		A33567	WyC

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Suislepper	104815				MdG
Sugar Crab	142974	Canada 1942			MdG
Sugar Crab	143974	Glenn Dale, Md.	Good indicator for stem pitting virus.	AP-H-394	MeO*, SdC WaP
Sugar Crab		John Robertson, Hot Springs, S.D. Orig. S.D. Exp. Sta. 1919	Sdlg. of Antonovka, Fr. lge., sweet, v. pleasant flavor, loses qual. fast. Tree strong, upright, alternate bearing in clusters.	A33526	WyC
Sugar Loaf			Old var. w. sweet fr.		MnS
Sukuniskiki		Glenn Dale, Md.			CnS
Summer Champion		AES, Ames, Ia.			IoA, OkS
Summer Del		Stark Bros. Nur., Louisiana, Mo.			CnS
Summerland Champion		Stark Bros. Nur., Louisiana, Mo.			OrC, MiG
Summerland 4-8,5-4					InL
Summerland Red Mac		Summerland Res Sta., B. C., Canada		AP-H-346	WaP
Summer Pear		Sherman Nur. Co., Charles City, Ia.		A34586	WyC
Summer Pearmain		AES, Univ. Park, Md.			NjB

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Summer Pearmain					PaU
Summer Rose					PaU
Sundog		Oscar H. Will & Co., Bismarck, N.D.	Hardy, erect growth; young tree, lvs. reddish in fall.	11765	NdM
Sundog	230685	Canada 1956			MdG
Sunset	157216	England 1947			MdG
Superb		Clinton Falls Nur., Owatonna, Minn.		A32434	WyC
Surpasse Frequin	125566	France 1937			MdG
Surprise	134672	Switzerland 1939			MdG
Surprise Reinette	137056	Switzerland 1940			MdG
Sutton		Sutton, Mass., 1848 D. G. Edmeston, Adrian, Mich. 1890	Prob. sdg. of Hubbardston. Fr. med., quite unif. Rnd.-sl. oblong. Skin thin, tough, attrac. brt. red, striped w. carmine. Flesh tinged w. yel., firm, crisp, tender, juicy, sa., good. Nov.-Mar. Tree vig. w. stout brs.		NyG
Sutton					PaU
Swaar		Robert Nitschke, Birmingham, Mich. 1959			NyG
Swardlands	129833	Australia 1938			MdG
Sweet Alford	131603	England 1939			MdG

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Sweet Ambri Kashmir	222275	India 1954			MdG
Sweet Bough		W. & T. Smith Co., Geneva, N.Y. 1910	Fr. med.-lge. Rnd. conic. or ovate to sl. oblong conic. Skin thick, tough, smooth, pale-yel., sometimes blushed. Flesh wh., mod. firm, fine, crisp, v. tender, juicy, sweet, sl. arom., good. Aug. & early Sept. Tree mod. vig.		NyG
Sweet Bough	143190	Canada 1941			MdG
Sweet Bough					PaU
Sweet Bough		Stark Bros. Nurs., Louisiana, Mo.		A33160	WyC
Sweet Crab		Boughen Nurs., Valley River, Manitoba, Canada		A32959	WyC
Sweet Mac		Northern Great Plains Field Sta., Mandan, N. D.		A52372	WyC
Sweet Mac					CnS
Sweet Russet		Gurney Nur. Co., Yankton, S.D.	Fr. 10/lb., oblong-conic., yel., russet, insipid. Late Aug. Blight suscept.		NdM
Sweet Russet		C. Drabenstott			OhW
Sweet Russet		Strands Nur., Taylor Falls, Minn.		A33661	WyC
Sweet Russet					SdC

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Swiss Orange		Fed. Exp. Sta., Wädenswill, Switz.	Ontario Reinette X Cox Orange Reinette.		MiG
Switzerland		Sondregger's Nur., Beatrice, Nebr.		A36309	WyC
Sylvia	141875	Canada 1941			MdG
Sylvia		Skinner's Nur. Ltd. 1951	Vig., hardy.		AkP
Szampanska		Sinoleka Exp. Sta., Sosnowe Kolo Siedlec, Poland 1936	Fr. med.-lge., oblate, lt. yel. Flesh firm, wh., sa., fair. No value.		NyG
Tacks Ben Davis		A. E. Tack, Clyde, N.Y. 1935	Ben Davis. Good col. but not as good as Gano. Late Oct.		NyG
Tallinnan Paarynaomena	212583	Sweden 1954			MdG
Tallinnan Parrynaomena	231750	Sweden 1956			MdG
Tambour d'Himbse	127366	France 1938			MdG
Tardive de La Sarthe	136268	France 1940			MdG
Tardive Forestier	175548	England 1949			MdG
Tasma	81916	Australia 1929			MdG
Taunton Cross	104617	USSR 1934			MdG
Taylor		E. F. Huen, Eldora, Iowa	Fr. med., oblate-oblong, col. gr.-yel. w. red stripes. Flavor poor-fair.		OhW
Tchistaikovka #3	135499	Manchuria 1940			MdG

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Teign Harvey	175549	England 1949			MdG
Teint Frais	127370	France 1938			MdG
Tetofsky		Sherman Nur., Charles City, Iowa	Russian orig.	A49117	IoA WyC
Tetofsky					PaU
Tetofsky Cross		Glenorchie Farm, Miami, Manitoba, Canada		A38735	WyC
Texola		W. E. Broome Nur., Myton, Utah		A51127	WyC
Thomas Roland	148404	Illinois 1944			MdG
Thorberg		Station	Duchess X Starking, Fr. 3/lb., oblate, red, tart- sa., excel. flavor. Resembles Delicious. Improves in stor. Mid.-Sept. Lt. blight.	11693,12043 12261	NdM
Thorberg		N. Gr. Plains Fld. Sta., Mandan, N.D.		N5780	NyG, OhW MnS
Tilsith	134373	Switzerland 1939			MdG
Timiskaming	151644	Canada 1945			MdG
Timiskaming	151644	Glenn Dale, Md.			MdG
Tioga		Orig. at AES, Geneva, N.Y. Introd. 1915.	Sutton X N. Spy. Fr. lge., lt. yel. Flesh firm, cream, sl. acid, sl. astr. Fair qual. Late Oct.	5559-4	NyG

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Tipi		AES, College Sta., S.D.	Fr. oblate, gr., waxy, inedible. Blossoms tolerate frost. Tree v. prod., free of scab & blight, v. suscept to cedar-apple rust.		SdC
Tipi	127707	S. D. 1938			PaU
Tipi	127707	Glenn Dale, Md.			NjB
Tipi		AES, Exelsior, Minn.			InL
Tipi					PaU
Toba		Summit Nurs., Stillwater, Minn.		A41116	WyC
Toba	151645				MdG
Toba		Dominion Exp. Farm, Morden, Manitoba	Resilda X Angus. Fr. 12/1b. oblong, attrac. red, tart, some blight. Late Aug. Of value for hardy frame-work.		NdM
Toba		Mandan, N. D.	Free of stem pitting virus.		MeO*
Tobiassler	134823	Switzerland 1939			MdG
Tohoku #2	255898	Japan 1959	McIntosh X Worcester Pearmain.		MdG
Tohoku #3	255899	Japan 1959	Jonathan X Worcester Pearmain.		MdG
Tohoku #4	255900	Japan 1959	Jonathan X Worcester Pearmain.		MdG
Tohoku #7	255901	Japan 1959	Ralls X Delicious.		MdG

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Tolman Sweet		Prob. orig. in Dorchester, Mass. Ellwanger & Barry, Rochester, N.Y. 1883	Fr. med., nearly glohular. Skin tough, pale yel. sl. russet. Flesh wh., firm, hard, mod., vig. Mid.-late winter.		NyG, OrC
Tolman Sweet		AES, Ames, Iowa			IoA
Tolman Sweet		Sherman Nur. Co., Charles City, Ia.		A48206	WyC
Tolman Sweet					MIe
Tolmo		AES, Brookings, S.D.	Tolman Sweet X Duchess. Fr. yel., w. red stripes, unattrac., excel. dess. Tree hardy, subj. to scab, open growth habit, fair producer.	A33605	SdC WyC
Tolstene		Russia	Fr. yel. w. red stripes. Stores during fall. Tree hardy, vig. w. excel. br. habit. Subj. to scab, free of blight.		SdC
Tom Putt	125271	England 1937			MdG
Tompkins King		T. H. King, Trumansburg, N.Y. 1900	Fr. lge.-v. lge., rnd. somewhat oblate, sometimes sl. conic. Skin smooth, fine, yel. over-spread w. orange-red, striped & splashed w. crim. Flesh attrac., yel., coarse, crisp, tender, arom., juicy, sa., v. good. Tree vig. Oct.-Jan.		NyG
Tompkins King		McNeil Island, Steilacoom, Wash.		AP-H- M-528	WaP WaM
Tompkins King					CnS, PaU, OhW

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Tony	148486	Canada 1944	M. baccata X McMahon White.		MdG
Tony	148486	Glenn Dale, Md.	Shows promise for hardy framework; being indexed.		MeO*
Tony		Boughen Nurs., Valley City, Manitoba, Can.		A32956	WyC
Toreno	245145	Spain 1958			MdG
Torstein	101888	Glenn Dale, Md. 1939	Fr. med.-lge., rnd. oblate, 90% striped. Flesh med. firm, nearly wh., sl. acid, fair. End Sept.		NyG
Toshkee		Dr. M. B. Davis, Ottawa, Canada 1937	Fr. lge., oblate, cov. w. attrac. red stripes. Flesh semi.-firm, cream, sa., good. Mid.-Oct.		NyG
Toshkee		Inter-State Nur., Hamburg, Ia.		A54130 11759	WyC NdM
Toshprince	148487	Canada 1944	(M. baccata X Tetofsky) X McIntosh.		MdG
Toyo	199532	Glenn Dale, Md.		A5785	WyC OrC
Trail	151646	Canada 1945			MdG
Trail		Dominion Exp. Sta., Morden, Manitoba	Northern Queen X Rideau. 17/lb., orange-red, oblate, sweet, juicy, excel. flavor, slight resist. Late Aug. Hardy.		NdM

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Trail		Boughen Nurs., Valley City, Man., Canada			AkP
Trail		Patmore Nurs., Brandon, Manitoba, Canada		A48412	WyC
Trail Early Mac		Trail, Clifton Springs, N.Y. 1957	Blushed type, v. sim.to McIntosh.		NyG
Transcendent		Sherman Nur., Charles City, Ia.	Fr. med.-lge., rnd.-rnd. oblong. Skin thin, brt. yel. w. brt. red cheek. Flesh yel., crisp, juicy, fine, sa., somewhat astr. V. good culin. Late Aug.- Sept. Tree lge.	A34597	NyG
Transcendent	148711	Canada 1944			MdG
Transcendent		Milton Nur.; Wm. Prince Nur. (1941)			OrC
Transcendent					PaU
Transparent					KaM
Transparent de Croncels	224551	Glenn Dale, Md.		A5796	WyC OrC
Trembletts Bitter	175550	England 1949			MdG
Trembletts Bitter	175550	Glenn Dale, Md.	Fr. med. size. End Sept.	2	NjB, NyG MoC
Trio Cal Crab		AES, Brookings, S.D.		A38108	WyC

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Trio Joe Crab		AES, Brookings S.D.		A38114	WYC
Tschampion #83		Thomas Mannseichner, Pfaffenhoffen /llm., Bavaria, Germany		N4867	MnS
Turley		Orip. in Orleans, Indiana by Joe E. Burton	Winesap op. sdlg. Fr. good ccl., resist. to cracking. Resembles Stayman as culin. but inferior dess. Ripens 1 wk. earlier than Stayman.		KaM
Turley		S. M. Hobbs & Sons, Bridgeport, Ind. 1917	Fr. med., rnd. conic., 3/4 striped. Flesh firm, gr., cream, sa., good. End Oct.		NyG
Turley		AES, Ames, Ia.			IoA
Turley		G. Edw. Marshall, Orleans, Ind.		AP-H-53 M-740	WaP WaM
Turley		AES, Wooster, Ohio			CrC
Turley		Greening Nur.	Fr. lge., oblate-oblong, dk. red. Flavor, fair-good.		OhW
Turley			Triploid. Pos. on R-12740-7A		NjB, InL*, OrC, InL, MiE, WiS, PaU, OkS
Twenty Ounce		Ellwanger & Barry, Rochester, N.Y. 1883	Fr. v. lge., form variable, usually rnd.-rnd. conic. Skin thick, tough, gr.-yel. & splashed w. brt. red. Flesh wh., tinged w. yel., coarse, juicy, sa., culin. Sept.-early winter. Tree mod. vig.		NyG

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Twenty Ounce		H. & W. Nur.			OhW
Twenty Ounce					PaU, IlU
Twenty Ounce Horton		C. C. Horto, New Martinsville, W. Va. 1924	Ident. w. Twenty Ounce, except more red col. Attrac. Colors earlier & better than Anderson Twenty Ounce.		NyG
Twistbody	175551	England			MdG
Twistbody	175551	Glenn Dale, Md.		20	MoC NyG
Tydemans Early Worcester	157218	England 1947			MdG
Tydemans Early Worcester	251965	England 1957			MdG
Tydemans Early Worcester	241965	Orig. from England		AP-H-349 AP-H-372	NyG WaP
Tydemans Early Worcester	241965	Glenn Dale, Md.	Early dess. apple. Scarlet red. Worcester X McIntosh Red.		
Tydemans Early Worcester		Geneva Orch. (from England)	Worcester X McI. Red. Fr. lge., rnd., oblate, 100% dk. red. Flesh sl. soft, cream, sa., Good. Late Aug.		NyG
Tydemans Late Orange		R. Nitschike, Birmingham, Mich. 1957			NyG
Tydemans Late Orange	241966	England 1957			MdG

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Tydeman Martinmars	157219	Glenn Dale, Md. 1951	Fr. med., 90% dull blush. Sl. acid, sl. astr.		NyG
Tydeman's Michaelmas Red	157220	England 1947			MdG
Tydeman's Michaelmas Red	157220	Glenn Dale, Md.	Late summer.		NjB
Tyler		AES, Madison, Wisc. 1935	Fr. lge., resembles Tompkins King in shape & col. Dull, greasy, well colored w. red striping over yel. grnd. Flesh yel., crisp, quite sour, sl. arom. Only culin. No merit for N.Y.		NyG
University		Sherman Nur. Co., Charles City, Ia.	Syn. Duchess No. 102.	A32839	WyC
Upton Pyne	213478	England 1954			MdG
Upton Pyne	213478	P. I. Australia			CnS
Utter		Wheelock Wilson Nur., Marshalltown, Ia. 1953	Fr. med.-lge. Usually rnd.- oblate, skin mod. thick, tough, clear, pale yel., usually washed w. orange red. Flesh wh., tinged w. yel., crisp, tender juicy, sa., good. Oct.-Dec.		NyG
Utter Red		Shenandoah Nur., Shenandoah, Ia.		A33205	WyC
Vagon Ascher	175552	England 1949			MdG

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Vagnon Ascher	175552	Glenn Dale, Md. 1959	Fr. med., rnd.-oblate, orange stripes on yel. grnd. Flesh soft, cream, sa., fair. Mid.-Oct.		NyG
Vails Early	219791	New Zealand 1954			MdG
Vails Early	219791	Glenn Dale, Md.			CnS, InL
Van Eseltine		Orig. AES, Geneva, N.Y. Introd. 1932	M. arnoldiana X M. spectabilis. Fr. v. sm., yel., 1/4 orange stripes. Worthless. Deciduous calyx. Ornam. here only.	11903	NyG
Veitch's Scarlet	231684	Glenn Dale, Md.		AP-H-395	WaP
Venus Pippin	125273	England 1937			MdG
Vernon	128413	M. C. Davis, Ottawa, Ontario, Canada		A38686	WyC
Verollot	136606	France 1940	Late blossoming.		MdG
Victoria Crab	158177	England 1947			MdG
Victory		AES, Excelsior, Minn.	McIntosh, probably op. Fr. oblate, brt. med. red; flesh resembles 'McI. but more acid. Qual excel., good stor.V. hardv, prod. V. suscept. to fire blight.	AP-H-111 AP-H-261	WiS, IUU, OrC, MnS, SdC WaP
Victory		Andrews Nur. Co., Excelsior, Minn.	No oxidaise.	10892, 11262 337378	OhW, MiG NdM MdG
Victory		AES, Ames, Ia.			IoA

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Victory		Farmer Seed & Nur. Co., Faribault, Minn. 1956		115	VtB
Victory		Shenandoah Nurs., Shenandoah, Ia.		A48118	WyC
Victory			2 yrs. neg. on R12740-7A.		InL*, Oks
Vigncole de Montan	244726	Spain 1958			MdG
Viking		Gurney Nur., Yankton, S.D.		A31415	WyC
Vinnoe	151262	Canada 1945			MdG
Virginia Crab	157044	Glenn Dale, Md. 1946			MdG
Virginia Crab	157044	Glenn Dale, Md.		AP-H-257	WaP
Virginia Crab #2		AES, Columbia, Mo.		AP-H-269	WaP
Virginia Crab		AES, Ames, Iowa			Wim
Virginia Crab		Jewell Nur. Co.	Ornam. bloom at Cheyenne.	A32773	WyC
Virginia Crab		Pioneer Nur., New Ulm, Minn.	Fr. 14/lb., orange red, oblate, tart, astr. Flesh yel. Mid.-Sept. V. hardy rootstock.		NdM
Virginia Crab		J. V. Bailey's Nur., St. Paul, Minn. 1929			NyG
Virginia Crab		AES, Lafayette, Ind.	Stem pitting virus indicator. Free of known apple viruses in U.S.		MeO*
Virginia Crab					PaU, IoA

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Vlahiņa	189678	Glenn Dale, Md.	V. late blooming Yugoslavian var.		NjB
Volga Crab		AES, Brookings, S.D.		A34910	Wyc
Vogel Calville	188525	Netherlands 1950			MdG
Vogel Calville		Glenn Dale, 1953	Fr. lge., lt. yel., flesh med.-firm, sa., fair. Early Sept. Poor bearer.		NyG
Wakpala			Mercer X Tolman Sweet. Fr. yel. w. red stripes. Qual. fair but incl. to develop water core. Tree hardy, good bearing char.		SdC
Wakpala		AES, Brookings, S.D.		A33394	Wyc
Waldhofler	134824	Switzerland 1939			MdG
Wallace Howard #605		Arlington Farm, Va.		A3042	Wyc
Wallace Hyb.	143920	Canada 1942			MdG
Wallace Hyb.		Wallace Nur. Ltd., Portage La Prairie, Manitoba, Canada		A48359	Wyc
Wanblee		AES, College Sta., S.D.	(Elk River X Bismark) X Wolf River, Fr. gr.-yel. w. red stripes. Tree hardy, upright growth habit.	A38353	SdC Wyc
Wanblee					PaU
Wanblee	127711	Glenn Dale, Md.			NjB

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Wamdesa crab		AES, College Sta., S.D.	Malus ioensis var. Elk River X Jonathan. Fr. red, flesh firm, acid, juicy. Poor qual. Tree sm., incl. to over prod., alternate bearing.		SdC
Warder		AES, Wooster, Ohio	Rome Beauty sdlg. Fr. med., rnd.-conic., 100% striped. Attrac. Flesh semi-firm, wh.- cream, sa., fair qual. Late Sept.	AP-H-151	OhW, NyG WaP
Warder		AES, Wenatchee, Wash.		AP-H-151	WaP
Waryirlka #55		Thomas Mannseichner, Pfaffenhoffen /llm., Bavaria, Germany		N4882	MnS
Washington Nonpareil	141247	England 1941			MdG
Washington Strawberry		Ellwanger & Barry, Rochester, N.Y. 1888	Fr. med.-lge., glob. sl. incl. to conic. Skin thin, tough, smooth, waxy gr.- yel. washed and mottled w. red. Flesh wh. tinged w. yel., firm, fine, crisp, v. juicy, sa., good-v. good. Sept.-Oct. Tree med.		NyG
Watts (Morden)		AES, Morden, Manitoba, Canada	Sdlg. of Patten.	A34670	WyC
Waubay Crab	127710	S.D. 1938			MdG
Waukon	134590	Canada 1939			MdG

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Waukon		Orig. in Moorhead, Minnesota by G.H. Sikes.	Unknown. Fr. med., oblate, irreg., skin grnd. color, yel. striped and splashed brill. red. Flesh firm, wh., tender, melting, mild, arom., non-acid; qual. fair to good dess. Late Aug. Tree strong, winter hardy. Blight suscept.		KaM
Waukon		O. H. Will, Bismarck, N.D.	Wealthy type.	A33283	WyC
Waziya crab		AES, C. D.	Malus ioensis var. Nevis X Northwestern Greening. Fr. gr.-yel., excel. keeper in common stor.		SdC
Wealthy		Sherman Nur. Co., Charles City, Ia.		A34589	WyC
Wealthy		Station		7554,9530, 10484	NdM
Wealthy				161	SdC, MiE, PaU, CnS, NjB VtB
Wealthy		P.M. Gideon, Excelsior, Minn. 1888	Fr. med.-lge., rnd.-conic., sl. flat. at base. Skin thin, tough, pale yel. blushed red, splashed w. dk. red. Flesh wh., stained w. red, fine, crisp, tender, v. juicy, sa., good-v. good. Dess. & culin. Oct.-Dec. Tree sm., hardy, tends to biennial bearing. Suscept. to scab, bitter rot, fire blight, & cedar rust.		NyG, KaM

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Wealthy		Oscar H. Will Co., Bismarck, N.D.			NdF
Wealthy		Earl Atkinson, Greenbluff, Wash.		AP-H-165	WaP
Wealthy		Inter-State Nurs., Hamburg, Iowa			IoA
Wealthy		Cole Nur., Painesville, Ohio			ChW
<u>Wealthy Sports</u>					
Anderson Red Strain		Unknown	Bud mut. of Wealthy.		ILU
Case		J. G. Case, Sodus, N.Y. 1936	Wealthy type except for dkr. red skin color.		NyG
Coombs		R. C. Coombs, Henmacker, N.H. 1942	Bud mut. of Wealthy.		NyG
Corey		E. P. Corey, Monroe Co. Asst. Agric. Agent 1955	Bud mut. of Wealthy. Giant type 2-4-4-4.		NyG
Double Red			2 yrs. neg. on R12740-7A.		InL*
Double Red		Stark Bros. Nur., Louisiana, Mo.	Wealthy sport. Apple sim. to Wealthy except for dkr. col.	A56418	WyC
June		Stark Bros., Louisiana, Mo.	Wealthy op. Fr. sm., all dk. red. Qual. good. V. short self life. Early Aug. Var. discontinued by Stark.	A52253	OrC, CnS, OhW NyG WyC

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<u>Wealthy Sports</u>					
June		AES, Wooster, Ohio		AP-H-153	WaP
Loop		H. S. Loop, North East, Pa. 1947	Wealthy bud mut. Giant type 2-4-4-4.		NyG
Read		Greening Nur., Monroe, Mich.		A56391	WyC
Red		F. L. Block, Ortonville, Minn.	Wealthy bud mut. More deeply colored than Wealthy.	N4340	MnS
Red		N.Y. State Fr. Test Assoc., Geneva, N.Y. 1957	Wealthy bud mut. Red, late summer apple.	44	MoC
Red					WiS
Ring's Red		Stark Bros. Nur., Louisiana, Mo.	Wealthy bud mut.		PaU
Ring's Red		Fred Rings, Walcott, N.Y. 1936	Wealthy bud mut. Wealthy type, skin solid dk, red blush, dkr. than parent.		NyG
Scott		Summerland, B.C.		AP-H-127	WaP
Stark		Stark Bros., Louisiana, Mo.			SdC
Stevenson		James Roe Stevenson, Cayuga, N.Y. 1928	Wealthy bud mut. Fr. lge., not highly productive. Giant type 2-4-4-4.		NyG
Winter		Andrews Nur., Minn.		B36583	MdG

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Webster		AES, Geneva, N.Y. Introd. 1938	NY 26 X NY 19 (both Ben Davis X Jonathan). Fr. lge., Skin solid brt. red. Cream flesh, acid. Early Oct. Long stor., culin. only. A triploid var.	2987 A48135	NyG WiS, MiE, MeO, PaU, MiG WyC
Webster					KaM, CnS
Webster		Maloney Nur., Dansville, N.Y.- B. Ridge Nurs.	Fr. v. lge., oblate to oblong-conic, dull red. Flavor fair.		OhW
Wecota		AES, Brookings, S.D.	Malus ioensis var. Nevis X Northwestern Greening. Fr. gr.-yel., inedible. Hardy tree, frost tolerant, some scab infect.	A33393	SdC WyC
Wedge		Fr. Breeding Sta., Excelsior, Minn.	Ben Davis op. Fr. v. lge., brt. red stripes over yel. base; attrac. Fair dess., good culin. Late Sept. Tree v. hardy, vig., prod.		MnS, SdC, NyG
Wedge		Sunshine State Nur.	4/lb., hardy, oblate, red stripe, tart-sa., good. Mid.-Sept. Blight resist.		NdM
Wedge		R. L. Wodarz, Wyndmere, N.D.			NdC
Wedge		Bill Balser, St. Paul, Minn.		AP-H-260	WaP
Wedge		Wedge Nurs., Alberta		A34281	WyC

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Weeber Rainpur		Thomas Mannseichner, Pfaffenhoffen /llm., Bavaria, Germany		N4851	MnS
Wellington		N.Y. State Fr. Test Assoc., Geneva, N.Y.	Cortland X Crimson Beauty. Fr. attrac., red striped. Dual purpose. Mid.-Aug.	N5853 160 AP-H-131 M770	NyG, CnS, NjB, MeO, OhW, WiS, MiG, OrC, IlU MnS VtB WaP WaM
Wellington Bloomless		E. Wellington, Waltham, Mass. 1907	Fr. oblong, irreg., yel., v. little orange bluish. Unattrac. Flesh yel., firm, acid. Poor qual.		NyG
Werchester Merton					CnS
Westchester		AES, Geneva, N.Y. 1914	Ben Davis X Green Newtown. Fr. lge., rnd., almost cov. w. splashed red. Flesh sl, soft, cream, sa., good. Late Oct.	94	NyG
Westfield Seek-No- Further		R. A. Nitschke, Birmingham, Mich.	Fall apple.		NjB
Westfield Seek-No- Further		R. C. Anderson, Kansas City, Mo. 1956	Fr. med., rnd.-conic. Skin tough, smooth, yel., splashed w. dull red. Flesh almost wh., firm, sl. coarse, crisp, tender, juicy, sa., arom., v. good.		NyG
Westfield Seed No- Further		Mt. Arbor Nur., Shenandoah, Ia.		A34207	WyC

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Westfield Seek-No-Further					PaU
Wetonka	159889	AES, Brookings, S.D.	Fr. gr., w. brt. red stripes. Flesh v. firm, inedible. Tree prod., v. hardy.	A33392	SdC, MdG WyC
Whatcom #1		Vern Frieman, Bellingham, Wash.		AP-H-172	WaP
Whetstone		Fr. Exp. Sta., Mountain Grove, Mo.	Conrad X Delicious. Fr. med.-lge., unif., gr.-yel. w. red stripe, attrac. Flesh cream, firm, sa., fair. Late Oct. Tree vig. Fr. hangs on in dry fall.		NyG, NjB, OkS, MiG, OhW
White Arctic			Fr. 14/1b., yel., oblate, tart, astr., bitter, softens. Mid.-Aug. Tree hardy, vig., some blight.		NdM
White Arctic		Snyder Bros., Center Point, Ia.		A33611	WyC
White Close	158620	England 1947			MdG
White Crofton	203818	Ireland 1953			MdG
White Crofton	203818	Glenn Dale, Md.			InL
White Crofton	206034	Ireland 1953			MdG
White Crofton		Glenn Dale, Md. 1956	Fr. med., wh.-yel, 1/4 dull stripes, v. unattrac. Flesh semi-firm, yel.-cream, sa., fair. Early Oct.		NyG

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White Jersey	175553	England 1949			MdG
White Ohio Pippin			Winter, yel. fruit.		NjB
White Pearmain		P. C. Anderson, Kansas City, Mo.	Fr. med.-lge., rnd. to ovate-conic. Skin tough, smooth, sl. waxen pale yel. Flesh sl. tinged w. yel., firm, crisp, tender, juicy, sa., arom., v. good. Dec.-Mar. Tree vig.		NyG
White Pippin		Ellwanger & Barry, Rochester, N.Y. 1883	Fr. med.-lge., rnd.-oblate incl. to conic. Skin pale yel. or gr., sometimes blushed w. thin brown-red. Flesh tinged yel., firm, little coarse, tender, crisp, juicy, sa., good. Nov.-Feb. Tree vig.		
White Winter Calville					PaU
White Winter Pearmain					PaU, NjB
White Winter Pearmain		Milton Nur., Indiana 1946			OrC
Whitney		Sherman Nur., Charles City, Ia. 1956	Fr. 10/lb., rnd. varying to conic. or ovate. Skin lt. yel., shaded & striped w. red. Flesh yel., crisp, juicy, mild, sa., good. Late Aug.-early Sept. Poor keeper. Tree med.-sm., blight suscept.		NyG

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Whitney		Pioneer Nur., New Ulm, Minn.			NdM
Whitney		Inter-State Nurs., Hamburg, Ia.			IoA
Whitney		Sam H. Bober, Newell, S. D.		A32563	WyC
Whitney					NdF, SdC
Whitney's Russet King		T. D. Whitney, Stanley, N.Y. 1919	Bud mut. of Tompkins King. Indent. w. T.K., Possibly somewhat redder.		NyG
Whitsel		John Whitsel, Emmett, Idaho		AP-H-167	WaP
Wickson Crab		Calif. Nur. Co., Niles, Calif. 1957	Yellow Newtown X Spitzenberg Crab. Fr. lge. (for crab), conic., 1/2 pink blushed. Flesh firm, creamy, sa., non- astr. Fair dess., good preserving & cider.	A48106	WyC NyG
Williams		W. A. Henry & Son., Wallingford, Conn. 1921	Fr. med.-lge., oblong conic. Skin med. thick, tender, smooth, pale yel. w. brt. deep red. Flesh sometimes tinged w. red, firm, little coarse, tender, juicy, sa., arom. Good. Late Aug.-Sept. Tree sm.		NyG
Williams					NjB
Williams Early Red		AES, Urbana, Ill.			ILU

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Williams Early Red		Bunting Nur. Inc., Selbyville, Delaware		A4952	WyC
Williams Early Red					PaU
Williams Red		Ackerman Nur., Bridgman, Mich.		A56239	WyC
Willie Sharp					PaU
Willis Williams Red		Hopkins Orch. near Daleville, Va.	Bud mut. of Williams Red. Fr. sl. more elong. & conic. than W. R., highly colored, near solid or blush red. Fr. & tree nearly ident. w. W. R.		VaB
Willow Twig		Plumfield Nurs., Fremont, Nebr.		A33428	WyC
Wilson Red June		AES, Urbana, Ill.			IlU
Wilson Red June		Stark Bros. Nurs., Louisiana, Mo.	Fr. med.-lge., conic-oblong, 100% brt. splashed crim. Flesh wh., sl. acid, sl. astr., poor qual. End Sept.	A33159	NyG WyC
Windsor Chief		Mt. Arbor Nurs., Shenandoah, Ia.		A33135	WyC
Winesap		Ellwanger & Barry, Rochester, N.Y. 1883	Fr. sm., conic.-rnd., skin med. thick, tough, smooth, glossy, bt. deep red. Flesh tinged w. yel. v. firm, coarse, v. juicy, sa., good. Season Jan.-Apr. Tree spreading, med. size, vig., suscept. to scab. Diploid but poor pollen.		NyG

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Winesap		Stark Bros. Nurs., Louisiana, Mo.		AP-H-70	WaP
Winesap		P.S.U. Orch.			PaU
Winesap		C. & O. Nurs., Wenatchee, Wash.			OhW
Winesap		Inter-State Nur., Hamburg, Iowa			IoA
Winesap		Plumfield Nur., Fremont, Nebr.		A51133	WyC
Winseap		Allen Bros., Naches, Wash.		AP-H-36 M-732	WaP WaM
Winesap			2 yrs. neg. on R12740-7A.		InL* KaM, NjB, OkS, IUU
<u>Winesap Sports</u>					
Allen Red		Allen Bros. Orch., Naches, Wash.			WaP
Baxter Black		Fred J. Baxter, Nauvoo, Ill.	Virus indexed. Will be propagated.	AP-H-148 M-772	WaP WaM* IUU
Baxter Black			Bud mut. of Winesap.		PaU
Bisbee		Hood River, Ore. Roy Bisbee 1957			OrC
Black		Ed Gensinger, Moses Coulee, Wash.		AP-H-102	WaP

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<u>Winesap Sports</u>					
Crimson		Ford Hoevis, Zillah, Wash.		AP-H-46	WaP
Double Red					KaM
Doud		AES, Layafette, Ind. 1959	Bud mut. of Winesap. Giant type 2-2-4-4.		NyG
Farrington Spurred Red		E. T. Farrington, Wenatchee, Wash.	Limb sport on a 40-yr. old Winesap.	AP-H-312	WaP
Felker Red		G. Lewis Felker, Chelan, Wash.	Limb sport on a mature Winesap.	AP-H-274	WaP
Gensinger Red		Ed. Gensinger, Moses Coulee, Wash.		AP-H-80	WaP
Gilbert					NjB
Golden		Mrs. Fred Mehl, Dryden, Wash.		AP-H-77	WaP
Golden		Winfield, Kansas 1917	Fr. lge., 1/3 cov. w. spotted red blush, gr.- yel. gnd. Flesh firm, cream sl. acid, poor qual. Late Oct.		NyG
Golden		Loveland Nur., Loveland, Colo.		A35435	WyC
Golden Melon					InL
Goodner Red		J. C. Goodner, Wenatchee, Wash.		AP-H-42 M-735	WaP WaM*

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<u>Winesap Sports</u>					
Heath's Red		Cal Cooper, Pateros, Wash.		AP-H-216	WaP
Hintze		E. R. Hintze, Tieton, Wash.		AP-H-93	WaP
Holliday		Holliday Sunnyslope, Wenatchee, Wash.		AP-H-140	WaP
Hoevis Red		Ford Hoevis, Zillah, Wash.		AP-H-47	WaP
Houser Red		Laurence Houser, Selah, Wash.	Limb sport on mature Winesap.	AP-H-278	WaP
Huvitus					InL
Improved		Bountiful Ridge Nur., Princess Anne, Md.	Bud mut. of Winesap. Lge. strain.	77	MoC
Improved			Pos. on R-12740-7A.	A56429	InL* WyC
Improved Seeando		Hemminger Orch., East Wenatchee, Wash.		AP-H-101	WaP
Johnson Red		Nick Cooper, Sunny- slope Orch., Wenatchee, Wash.	Limb sport on a 45-yr. old Winesap tree.	AP-H-45 M736	WaP WaM*
Jylha		Eino Jylha, Tieton, Wash.			

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<u>Winesap Sports</u>					
King		A. W. King, Wenatchee, Wash.	Limb sport on a 50-yr. old Winesap.	AP-H-57	WaP
Legana					InL
Mance Spurred Red		Ruby Mance, Naches, Wash.		AP-H-185	WaP
Marck		E. Marck, Wapato, Wash.		AP-H-52	WaP
Marley Red		Marley Orch., Tieton, Wash.		AP-H-345	WaP
Mosebar		Mosebar, Yakima, Wash.		AP-H-48 M737	WaP WaM
Neubert Red		W. A. Buckles Orch., Tieton, Wash.		AP-H-340	WaP
Paslay Giant		Paslay Orch., Brewster, Wash.		AP-H-336	WaP
Picha's		Summit Nurs., Stillwater, Minn.		A36414	WyC
Red		C. & O. Nur. Co., Wenatchee, Wash.	Non-bearing trees.		MeO
Red			2 yrs. neg. on R12740-7A.		PaU InL*
Ruble Red		Alfred E. Ruble, Wenatchee, Wash.		AP-H-43	WaP
Schell Spurred Red		Clarence Shell Orch., Cashmere, Wash.	Limb sport on a 50-yr. old Winesap. 274	AP-H-304	WaP

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Winesap Sports</u>					
Seeando			Winesap. Selected 1928. Fr. colors earlier than Winesap.		KaM
Seeando		C & O Nur. Co., Wenatchee, Wash. 1932	Bud mut. of Winesap. Fr. colors earlier than Winesap.		NyG
Sedge Red		A. W. Sedge Orch., Naches, Wash.		AP-H-313	WaP
Sinclair Red		Summerland Res. Sta., Summerland, B. C.		AP-H-328	WaP
Stark Red					KaM
Strand Red		Ralph Strand, Naches, Wash.		AP-H-34 M-730	WaP WaM
Strand Red		C. G. Strand, Coviche, Wash.		AP-H-34	WaP
Swanson Winesap #1, #3		Clarence Swanson, Peshastin, Wash.		AP-H-309 AP-H-310	WaP WaP
Sweet		Pa. Described by Downing, 1869. W. & T. Smith, Geneva, N.Y. 1897	Fr. med.-lge., rnd.-conic. Skin tough, smooth, yel. or gr. overspread w. bt. lt. red. Flesh nearly wh., firm, rather fine, crisp, juicy, sweet. Good. Dec.- Mar. Tree med., vig.		NyG
Virginia		Rodgers Hamilton, Okanogan, Wash.		AP-H-99	WaP
Virginia					InL, OkS

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<u>Winesap Sport</u>					
Virginia Red					IIU
Wade Red		Jim Wade, Malott, Wash.		AP-H-73 M748	WaP WaM
Welch Red		Jim Welch, East Wenatchee, Wash.		AP-H-44	WaP
Welch Solid Red		Jim Welch, East Wenatchee, Wash.		AP-H-78	WaP
Wellington			Pos. on R-12740-7A.		InL*
Winesap D-23-24		Stark Bros. Nur., Louisiana, Mo.			PaU
Yellow		Francis Hastings, Chelan, Wash.		AP-H-398	WaP
Winnifred		Stevenson Bros., Morden, Manitoba, Canada		A32789	WyC
Winston	157217	Glenn Dale, Md. 1951	Fr. med., dull striped, acid. Poor qual. Mid.-Oct.		NyG
Winter Banana		Greening Bros., Monroe, Mich. 1892	Fr. lge., rnd.-conic. to oblong-conic. Skin smooth, mod. thick, tough, waxy, brt. pale yel., often blush w. pink-red. Flesh wh., mod. firm, tender, juicy, mild sa., good. Mid.-winter. Tree med., vig.		NyG

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Winter Banana		Bountiful Ridge Nur., Princess Anne, Md. 1957	Yel., fall dess. apple.	26	MoC
Winter Banana		Stark Bros. Nur., Louisiana, Mo.	Sdlg. Fr. med.-lge., oblate, lopsided, Yel. w. blushed cheek. Flavor, fair.		OhW
Winter Banana		P.S.U. Orch.			PaU
Winter Banana		Buckley Nur., Buckley, Wash.		AP-H-14	WaP
Winter Banana			Winter, yellow.		MiE, CnS, IlU, NjB
Winter Paradise		Mt. Arbor Nurs., Shenandoah, Ia.		A33134	WyC
Winter Queen		Fruitland Nur., August, Ga.	Syn. of Buckingham.	A341316	WyC
Winter Queening	131217	England 1938	Syn. of Buckingham.		MdG
Winterrambour	126996	Germany 1938			MdG
Winter Sweet Paradise					PaU
Winterzitronenapfel	126995	Germany 1938			MdG
Winton		Dominion Exp. Farm., Morden, Manitoba, Canada	5/lb., oblate, red, tart, sa., good. Late Sept. Blight suscept. Hardy.	9508	NdM
Winton		N. Gr. Plains Field Sta., Mandan, N.D.		A52390	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Wisantowoye		USSR 1934	Unknown parentage. Tree sev. damaged by blight and some scab. Has not prod. fruit.		SdC
Wisley Crab	215545	England 1955			MdG
Wismer			Fr. med., oblate-oblong, gr. w. red streaks. Flavor good.		OhW
Wodarz 120		R. L. Wodarz, Windmere, N.D.	Unknown parentage. Blight susceptible.	11375	NdM
Wolf River					PaU, MiE, IUU
Wolf River		W. S. Jeaton, Upper Red Hook, N.Y. 1913	Fr. lge., broad & flat at the base, inclined to conic. Skin thick, pale, yel., mottled & blushed w. brt. deep red. Flesh sl. tinged w. yel., firm, coarse, tender, juicy, sa., good. Sept.-Dec. Tree lge., mod. vig.		NyG
Wolf River		S. D. Hort.Society			OhW
Wolf River		Sherman Nur., Charles City, Ia.			IoA
Wolf River		Scions from N.Y. AES, Geneva, N.Y.	Late summer. Fr. v. lge. V. hardy.		NjB
Wolf River		Shenandoah Nurs., Shenandoah, Ia.	V. lge. fr. Poor qual.	A32375	WyC
Worcester	104618	Glenn Dale, Md. 1944	Fr. med., rnd.-oblate, 100% striped. Flesh soft, wh., sa., sl. astr., poor. Late Sept.		NyG

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Worcester Cross	104618	Glenn Dale, Md. Orig. England 1934	Cox Orange X Wealthy, Fr. med., rnd.-sl. flat. Skin yel. cov. w. crim, flush and stripes. Flesh sl. yel., juicy, sweet, arom. Dess. Oct.		NyG, PaU, NjB, MiG
Worcester Pearmain	206035	Ireland 1953			MdG
Worcester Pearmain	206035	Glenn Dale, Md.			InL
Worcester Pearmain	238791	England 1957			MdG
Worcester Pearmain	238791	Glenn Dale, Md.		101 9 AP-H-286	WaW MoC NjB WaP
Worcester Pearmain		K. D. Bruce, Geneva, N.Y.	Sdlg. of Devonshire Quarrender. Fr. med., rnd.-conic. Skin thick, tough, smooth, almost all cov. w. brill. red. Flesh wh., crisp, sweet, juicy. Good dess. Sept.-Oct. Tree med.		NyG
Wormless		C. E. Moyer 1946			OrC
Wotanda		AES, College Sta., S.D.	M. ioensis var. Nevis X Northwestern Greening, V. similar to Wecota.		SdC
Wrixparent		Bountiful Ridge. Nurs., Princess Anne, Md.	Op. sdlg. of Yel. Transparent. Giant type 2-4-4-4, Light gr., culin. Blight resist. 10-15 days before Transparent. Early annual bearer.	A48238	NyG, OhW, IlU, NjB WyC

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Wrixparent		Glenn Dale, Md.		N57102	MnS
Wrixparent					OkS
Wyken Pippin	127022	England 1938			MdG
Wyken Pippin		Fred Ashworth, Heuvelton, N.Y.		N4568	MnS
Wynema Crab	161093	Iowa 1947			MdG
Wynema Crab		Snyder Bros. Inc., Center Point, Ia.	M. ioensis X M. sylvestris. Very late blooming.		
Wyo. Fremont		Wyo. St. Exp. Farm, Lander, Wyo.	Unknown.	A3148	WyC
X-ellent		Calif. Nur. Co., Niles, V. similar to Delic. Calif. 1944			NyG
X-ellent	148287	California 1944			MdG
Yakhontowaye		Obtained from Russia 1934	Fr. borne in clusters and ropes on branches; dull red, oblong-conic. Poor qual. Tree hardy w. open growth habit. Scab infec. severe, no blight present.		SdC
Yakima #318		Arlington Farm, Va.		A3047	WyC
Yarlington Mills	158621	England 1947			MdG
Yarlington Mills	158621	Glenn Dale, Md.	Fr. med.-lge., 1/2 striped, unattrac. Flesh cream, sweet, sl. astr.		NyG, NjB, MiG
Yarlington Mills	161849	England 1948			MdG

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Yates		Fruitland Nurs., Augusta, Ga.		A4860	WyC
Yeager's Sweet		J. H. Schultz, Fargo, N.D.		AP-H-122 M-765	WaP WaM
Yeager's Sweet		AES, Fargo, N.D.			NdF
Yeager's Sweet		Oscar H. Will & Co., Bismarck, N.D.	Patten Greening op. Fr. 8/lb., rnd.-oblate, yel., v. sweet, soft, no stor. Good. Early Aug. Lt. blight. Hardy.	10313, 10948	NdM, SdC
Yeager's Sweet		Northwest Nur. Co., Valley City, N.D.		A48234	WyC
Yellow Belleflower		W. & T. Smith Co., Geneva, N.Y. 1910	Fr. variable in size, rnd.- oblong to conic. Skin smooth, brt., pale yel., sl. brown- red. Flesh whitish, firm, crisp, tender, juicy, arom. Culin. use only. Dec.-Mar. Tree med., vig.		NyG
Yellow Belleflower					PaU
Yellow Newtown		C & O Nur., Wenatchee, Wash. 1958			MoC
Yellow Newtown		Barnes & Son, Middlehope, N.Y. 1936	Fr. med.-lge., rnd.-oblate, usually angular. Skin rough, smooth, brt. yel. w. pink blush. Flesh distinctly tinged w. yel., firm, crisp, tender, juicy, highly arom., v. good. Jan.-Apr. Tree med.- lge., vig.		NyG

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Yellow Newtown					NjB, CnS
Yellow Newtown		Joe Skinner, Glacier Orch., White Salmon, Wash.		AP-H-137	WaP
Yellow Newtown		P.S.U. Orchards			PaU
Yellow Newtown		Milton Nur., Newtown, N.Y.			OrC
Yellow Siberian		AES, S.D.	Selected sdlg. of M. baccata. Fr. yel., inedible. Rootstock.		SdC
Yellow Siberian					NdM
Yellow Siberian		Jewell Nur. Co., Lake City, Minn.		A32771	WyC
Yellow Sweet		Russian variety	Fr. resembles Yellow Transp., variable size. Tree alternate bearer, winter tender.		SdC
Yellow Sweet		AES, Brookings, S.D.	Russian origin.	A33385	WyC
Yellow Transparent				109	VtB CnS, SdC, NjB, OkS, PaU, IlU
Yellow Transparent	148149	New York 1944			MdG
Yellow Transparent		R. G. Chase, Geneva, N.Y. 1888	Fr. med.-lge., rnd.-ovate to rnd.-conic. Skin thin, tender, smooth, waxy, pale gr.-yel. Flesh wh., mod. firm, crisp, tender, juicy, tart sa., good. Late July-Aug. Tree med. size, vig., v. hardy, blight susceptible.		NyG

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Yellow Transparent		Maine Apple Tree Pool			MeO
Yellow Transparent		Stark Bros. Nur., Louisiana, Mo. & Bountiful Ridge Nur., Princess Anne, Md.			OhW
Yellow Transparent		May Nur. Co., Yakima, Wash.		AP-H-405	WaP
Yellow Transparent		USSR 1870 (USDA 1943)			OrC
Yellow Transparent		Station		10214	NdM
Yellow Transparent		Loveland Nur., Loveland, Colo.		A33513	WyC
Yellow Waxen		B. G. Thompson, Corvallis, Oregon (1954)			OrC
Yephory's Chernogous		Canada 1942			MdG
York					MiE
York Imperial		P.S.U. Orchard			PaU
York Imperial		Inter-State Nur., Hamburg, Iowa		A34515	IoA WyC
York Imperial		Bountiful Ridge Nurs., Princess Anne, Md.	Fr. med., oblate to oblong, lopsided, greenish, red striped; flavor fair. Long stor.		OhW, IlU, NjB

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>York Sports</u>					
Colora Red York			2 yrs. neg. on R-12740-7A. Fr. unif. all red, one picking; 1-2 wks. earlier than York Imperial.		InL*
York-a-red		Stark Bros. Nur., Louisiana, Mo.	Identical w. York Imperial except for all over red col.		NyG, IUU
York-a-red		P.S.U. Orch.			PaU
York-a-red			A redder York sport.		InL*
Yorking		Ia. St. Univ. Hort. Dept., Ames, Iowa			IoA
Yorking		P.S.U. Orch.			PaU
Yorking		Waynesboro Nurs., Waynesboro, Va. 1936	York Imperial. Fr. col. all red instead of partly red as on parent tree.		NyG
Yorking					NjB
Young America		W. T. Smith Co., Geneva, N.Y. 1907	Fr. lge. (for crab), good cooking qual. Mid.-Sept. Tree v. hardy.		NyG
Young America		N.Y. St. Fr. Test. Assoc., Geneva, N.Y.		A34316	SdC WyC
Young America					PaU
Zapta					PaU
Zapta		AES, Lafayette, Ind.			IUU

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Zapta	127712	Glenn Dale, Md.	M. ioensis X Bismark. Crab apple.		NjB
Zapta		AES, Excelsior, Minn.			InL
Zapta		S.D. Agr. Exp. Sta.	M. ioensis X Bismark. Fr. green, firm, in- edible. V. hardy & vig.		SdC
Zelma		AES, College Sta., S.D.	M. ioensis X baccata. Pink blossoms. Fr. flesh red, firm, juicy, but little value.		SdC
Zelma		AES, Brookings, S.D.		A33397	WyC
Zigeunerinapfel	126998	Germany 1938			MdG
Zimnieje Piervoskhodnoie	259456	Poland 1959			MdG
Zuzoff		J. M. Steinbrech, Lander, Wyo.	Wyo. #X.	A3659	WyC

Polyploid Lines

Baldwin			Winter. Triploid.		NjB
Baldwin			Unknown. Triploid.		MeO
Bates Lobo		W. L. Bates, Stevensville, Pa. 1953	Lobo. Giant type 2-2-2-4.		NyG
Delicious	237700	Beltsville 1953	4-4-4.		MdG
Delicious	237700			180	VtB

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<u>Polyploid Lines</u>					
Delicious	237700		4-4-4. (Dermen).	180 AP-H-199	VtB WaP NyG, MiG, IU, InL
Delicious		Beltsville, Md.	Tetraploid. 2-4-4 (Dermen).		InL, IU
Fruitland Delicious		AES, Lafayette, Ind. 1960.	Giant type 2-4-4-4.		NyG
Delicious Golden		Loren Doud, Wabash, Ind.	Tetraploid 2-4-4. (Einset).		InL, IU, NyG
Giant Yellow			Transparent 2-4-4 (Einset).		InL
Giant Yellow		D. B. Perrine, Centralia, Ill.	Transparent tetraploid.		IU
Giant Ontario		T. C. Maxwell, Geneva, N.Y. 1910	Ontario. Giant type. 2-4-4-4.		NyG
Jonathan			Tetraploid 2-4-4 (Einset).		InL
Jonathan		AES, Lafayette, Ind.	Tetraploid. 2-4-4.		IU
McIntosh (Dermen)		USDA, Beltsville, Md.	Tetraploid 4-4-4 (Dermen).		InL
McIntosh		AES, Lafayette, Ind.	Exogenous bud of 2-4-4 McI. Tetraploid (Dermen).		IU
McIntosh			2-4-4 (Einset).		InL
McIntosh	175034	Glenn Dale, Md. 1953	McIntosh, Giant type 2-4-4-4.		NyG

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<u>Polyploid Lines</u>					
McIntosh		Ben Dunn, Rochester, Minn.	McI. tetraploid	N57115	MnS
Kimball McIntosh	175034	USDA, Beltsville, Md.	McI. 4-4-4 tetraploid.		MiG
Kimball Giant McIntosh	237701	USDA, Beltsville, Md.	4-4-4 tetraploid.		MdG
McIntosh	175034	Glenn Dale, Md. 1953	4X.		MeO
Melba Pate		Central Exp. Farm, Ottawa, Ontario, Canada 1958.	Colchicine-induced mut. of Melba Pate. Not yet fruited at Geneva. 4X.		NyG
Ontario			Tetraploid.		InL
Ontario		AES, Lafayette, Ind.	Ontario. Tetraploid.		IlU
Patricia		Central Exp. Farm, Ottawa, Ontario,	Colchicine-induced mut. of Patricia, Identical w/Pat. except larger, 2 1/2-23/4" diam. 4X.		NyG
Sandow		Central Exp. Farm, Ottawa, Canada 1958	Colchicine-induced tetra- ploid of Sandow. Not yet fruited at Geneva. 4X.		NyG
Spartan		Central Exp. Farm, Ottawa, Ontario 1958	Spartan, tetraploid, in- duced by colchicine. Not yet fruited at Geneva. 4X.		NyG
Wealthy		AES, Lafayette, Ind.	Wealthy. Tetraploid (Loop).		IlU
Wealthy			Wealthy tetraploid (Einset).		InL
Winesap		Birchmont Orchard, Wenatchee, Wash.	4-4-4 287	AP-H-342	WaP

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<u>Polyploid Lines</u>					
Winesap	237685		4-4-4,	AP-H-288	WaP
Winesap	237685	USDA, Beltsville, Md.	Winesap. Tetraploid 4-4-4. (Dermen)		IlU, InL, NyG, MdG
Wrixparent	237703	USDA, Beltsville, Md.	4-4-4,	AP-H-195	InL PaU, MdG, OrC
York		D. Perrine, Centralia, Ill.	Tetraploid 2-4-4. (Janick).		InL

UNNAMED SELECTIONS AND HYBRIDS - BY ORIGIN

Alberta

CANADA

Brooks #7	158642	Canada 1947			MdG
Brooks #20	158643	Canada 1947			MdG
Brooks #30	158644	Canada 1947			MdG
Meyer #12	151720	Canada 1945			MdG

British Columbia

S-4-8		Exp. Sta., Summerland, B. C.			IlU
S-5-4		Exp. Sta., Summerland, B. C.			IlU
S-5-4	194144	Canada 1941			MdG

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<u>Manitoba</u>					
Bowyer #3, #14, #16		Skinner's Nur., Ltd., Dropmore, Manitoba		A51299	WyC
A1-14	151252	Canada 1945			MdG
AA-17-68 (M364)		Exp. Sta., Morden, Manitoba	Melba X Haralson.		MiG
AA-587-(M 359		Exp. Sta., Morden Manitoba	Wealthy X Melba.		MiG
Heyer #2		Boughen Nurs., Manitoba		A48395	WyC
Heyer #2	151255	Canada 1945		A48395	WyC
Heyer #12		Canada	Fr. 7/1b., yel., acid, astr., fair. Early bearer. No blight evident. Mid.-Aug. Hardy.	11856	NdM
Heyer #12		Patmore Nur. Ltd., Brandon, Manitoba	Russian sdlg. Fr. gr.-yel.	A51219	WyC
Heyer 12		Skinner's Nur. Ltd., 1951			AkP
Heyer #20		Boughen Nurs., Valley River, Manitoba	Parentage unknown.	A51263	WyC
Meyer Seedling		Dom. Exp. Farm, Morden, Manitoba		A36781	WyC
Manitoba (Morden)		Morden, Manitoba	Sdlg. of Duchess of Oldenberg	A34677	WyC

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Morden M-310, M-312, M-317, M-318; M-340		W. R. Leslie, Morden, Manitoba		A34669, A34680 A34675, A34684 A36770	Wyc
Morden G-85, 27, 8A13		Brand Peony Farms, Faribault, Minn. 1950	Flowering Crab.	34, 26, 33	VtB
Morden 352, 354, 355		Dom. Exp. Farm, Morden, Manitoba			SdC
Morden-354 (5034-E-113)		Dom. Exp. Farm, Morden, Manitoba		A50128	Wyc
Morden 359, 363 366		Dom. Exp. Farm, Morden, Manitoba	359 Wealthy X Melba. 363 Haralson X Melba. 366 Moscow Pear Apple sdg. X Melba.		PaU
Morden 363		Inter-State Nurs., Hamburg, Ia.		A54133 11762	Wyc NdM
Morden 364, 368		Dom. Exp. Farm, Morden, Manitoba			SdC
Morden 366- 369		Dom. Exp. Farm, Morden, Manitoba	Unknown	12300-03	NdM
Morden 19-114		Brand Peony Farms, Faribault, Minn.	Flowering Crab.	35	VtB
Morden 5006- I-8 (18 numbers of this series)		Dom. Exp. Farm, Morden, Manitoba			Wyc
Morden 356- 363		Dom. Exp. Farm, Morden, Manitoba			SdC

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Morden 5035- H-46		Dom. Exp. Farm, Morden, Manitoba	Fr. 5/1b., oblate, yel., sweet, banana flavor. Drops badly. Late August. Blight susc. Hardy.	9502	NdM
Morden 5035- I-58		Dom. Exp. Farm, Morden, Manitoba	Fr. 4/1b., oblate, red stripe, rus. cavity, sa., soft, fair. Mid-Sept. Severe blight. Hardy.	9504	NdM
OAC 12012		Dom. Exp. Farm, Morden, Manitoba	Fr. 8/1b., oblate, attrac. dark red, sweet, sa, good flavor. Early Sept. Light blight, Hardy.	9864	
Skinner's Hybrid No. 1-38		Manitoba Hardy Plant Nur., Dropmore, Manitoba			MdG
M.R. #457	162971	Canada 1948			MdG
V-1-4		Dom. Exp. Farm, Morden, Manitoba		A50125	WyC
Dolgo x Haralson		Patmore Nurs., Brandon, Manitoba		A49317	WyC
Jewell x Rideau		Boughen Nurs., Valley River, Manitoba		A49417	WyC
Mecca x Dolgo		Patmore Nurs., Brandon, Manitoba		A48410	WyC

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<u>Nova Scotia</u>					
K 33-112-3	214145	Canada 1955			McG
N.S. 32-176-41		Exp. Sta., Kentville, N.S.		117	VtB
N.S.33-99-1		Exp. Sta., Kentville, N.S.		118	VtB
N.S. 33-112-3		Exp. Sta. Kentville, N.S.		116	VtB
N.S. 33-125-70			Op. McIntosh.		PaU
<u>Ontario</u>					
Ontario T-391		Ontario Agr. Exp. Sta.	Cortland X No. Spy.		WiM
Ontario O-381		Ontario Agr. Exp. Sta.	Cox Orange X McIntosh.		WiM
<u>Ottawa</u>					
O - 292		Exp. Farms, Ottawa	Melba X Astrachan.		MiG
O - 342		Exp. Farms, Ottawa	Crim. Beauty X Melba.		MiG IUU
O - 381	205706	Canada 1953			McG
O - 381	205706	Glenn Dale, Md.		A5-87	WyC
O - 2016		Exp. Farms, Ottawa	McIntosh X Milwaukee.		MiG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
0 - 6187		Exp. Farms, Ottawa			I1U
0 - 6265		Exp. Farms, Ottawa			I1U
Ottawa #322	137581	Canada 1940			MdG
Ottawa 342		Dom. Exp. Farm, Ottawa	Crimson Beauty X Melba.	157	VtB
Ottawa #436	137578	Canada 1940			MdG
Ottawa T-441		Dom. Exp. Farm, Ottawa 1958	Crimson Beauty X Red Melba.	158	VtB
Ottawa #452	137579	Canada 1940			MdG
Ottawa 524		Div. Hort., Central Exp. Farm, Ottawa			PaU, InL, NdF
Robusta #5	137577	Canada 1950	M. baccata x prunifolia. Good rootstock.	134 59 AP-H255	VtB MoC MiG, WaP
Robusta	137577	Canada 1940	Cherry crab #5.		MdG
Robusta #5		Central Exp. Farm, Ottawa	Value as inter- stock.		NdF MiE
Robusta #5			Hardy rootstock.		InL WiM
Robusta #5		Central Exp. Farm, Ottawa	Sdlg. from Russian seed. Rootstock clone.	N4963	MnE

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Robusta #5		Dom. Exp. Farm, Ottawa	Rootstock var., res. to fire blight, crown rot, and ex- tremely hardy.		MeO
Robusta #5		AES, Urbana, Illinois			PaU, NjB
T - 391	205707	Canada 1953			MdG
T - 441		Exp. Farms, Ottawa	Crim. Beauty X Melba.		MiG IlU

ENGLAND

"Concerning the MM rootstocks, we would add that following the exceptionally wet autumn we experienced in this country last year, MM 104 was found to be susceptible to impeded drainage; we would therefore only recommend this rootstock where the soil is well-drained. MM 111 and MM 106 on the other hand, have done well under a wide range of soil conditions.

Our various apple rootstock trials are continuing; none of these selected for field trial has been "discarded", though no further releases have been made other than those mentioned in the reprints. It does, of course, sometimes happen that a rootstock has to be re-cloned as our methods of virus-detection improve; new healthy sub-clones are released from time to time, as and when available." (East Malling Research Station, 8 Nov. 1961)

East Malling

Malling I		East Malling, Kent, England	For dwarfing certain vars. Indexing not yet complete.	182	Vt3, MiE* PaU InL
Malling II		IES, Prosser		183 M-709	VtB WaM, InL PaU, MiE*

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Malling III		AES, N.Y. State		A4128	WvC, PaU, MiE*
Malling IV		IES, Prosser		M-710 A4129	WaM WyC, PaU, MiE*
Malling V		IES, Prosser		M-711 A4130	WaM WyC, PaU, MiE*
Malling VI					PaU, MiE*
Malling VII		IES, Prosser		184 M-712	VtB WaM PaU, MiE*, InL
Malling VIII					InL, PaU, MiE*
Malling IX		IES, Prosser, Washington		185 M-713	VtB WaM PaU, MiE* InL
Malling X					PaU, MiE*
Malling XI					PaU, MiE*
Malling XII					PaU, MiE*
Malling XIII		IES, Prosser, Washington		187 M-714	VtB JaM PaU, MiE*, InL
Malling XIV					PaU, MiE*

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Malling XV					PaU, MiE*
Malling XVI		IES, Prosser, Washington		188 M-715	VtB WaM, InL, PaU, MiE*
Malling XVII - XXIV					PaU
Malling XXV					InL, PaU
Malling XXVI		Canada		AP-H-412, 408	WaP MiE*
Malling Crab C					PaU
Malling Merton 101		England	No. Spv X EM IX.	A52128	MiE* WyC PaU, InL
Malling Merton 212248 102		Glenn Dale, Md.	No. Spy X Malling I Woolly aphid resist.	65 A52121	MoC WyC MiE*, PaU InL
Malling Merton 103		E. Malling Exp. Sta., England		A5371	WyC MiE*, PaU, InL
Malling Merton 104		E. Malling Exp. Sta., England	Malling II X No. Spy. Woolly aphid resist.	A52124	WyC
		Glenn Dale, Md.		AP-H-59 M-705 64	WaM* MiE*, PaU InL MoC

<u>Variety</u>	<u>PI. No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Malling Merton 105		E. Malling Exp. Sta., England		A52125	Wyc PaU, MIE*, InL
Malling Merton 106	212250	Glenn Dale, Md.	No. Spy X Malling I AP-H-60 Woolly aphid resist. M-704 63	A52122	Waf* MoC Wyc MIE*, InL, PaU
Malling Merton 107		E. Malling Exp. Sta., England		A5372	Wyc InL
Malling Merton 108		E. Malling, Exp. Sta., England		A5373	Wyc InL
Malling Merton 109	212251	Glenn Dale, Md.	Malling II X Spy Woolly aphid resist. 62	AP-H-61 A52129	Waf* MoC Wyc MIE*, InL
Malling Merton 110		E. Malling Exp. Sta., England		A52123	Wyc PaU, InL, MIE*
Malling Merton 111	212252	Glenn Dale, Md.		A52127 AP-H- 62 M-707 61	Wyc Waf* MoC PaU, InL, MIE*
Malling Merton 112		E. Malling Exp. Sta., England		A5374	Wyc PaU, MIE* InL

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Malling Merton 113		E. Malling Exp. Sta., England		A5375	Wyc PaU, MiE*
Malling Merton 114		E. Malling Exp. Sta., England		A52126	Wyc PaU, InL MiE*
Merton #778	133099	England 1939			MdG
Merton #779	133100	England 1939			MdG
Merton #789	133101	England 1939			MdG

GERMAN SELECTIONS

The following selections were grown and numbered by Dr. K. J. Maurer, Institut fur Obstbau, Geisenheim am Rhine. They consist of material from the Schmidt studies for scab resistance.

Rhein

BV 49.11	172605	Germany 1949			MdG
BV 50.23	172606				
BV 82.10	172608				
BVIII 33.4	172611	Glenn Dale, Md.	Antonowka op. Fr. extremely oblate, lt. red on yel. Skin scarfed, tough cheek, fresh, vel. coarse, firm, tough, mod. dry. Flavor mild, sa., qual. poor. Highly scab resist.		InL

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Rhein</u>					
BVIII 33.8	172612	Glenn Dale, Md.	Antonowka.1.7"diam. Self. Oblate, gr., skin smooth,tough, thick;flesh greenish, coarse,firm,tough, mod.dry.Flavor acid, poor qual.Resist. to scab.		InL
BVIII 33.14	172616	Glenn Dale, Md.	2.4"diam.,oblate, orange blush on yel. end;skin smooth, tough,thin;flesh wh. coarse,firm,crisp, mod.dry;mild sa., qual.fair; Resist. to scab.		InL
BVIII 33.25	172623	Glenn Dale, Md.	2.3"diam.oblong.yel., some russet,tender, thick skin;flesh wh., coarse,firm,tender, mod.dry.Flavor spri- ghtly as., qual.fair; Resist. to scab.		InL
BVIII 34.6	172633	Glenn Dale, Md.	Antonowka op.2.3"diam., oblate,gr.;skin smooth, tough,thick,flesh,wh. coarse,firm,tough,dry. Flavor acid,qual.poor. Resist. to scab.		InL

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Rhein</u>					
BVIII 33.10	172613	Glenn Dale, Md.	Antonowka op. Scab resist.		Nj3
BVIII 33.14	165803				
BVIII 33.19	165804				
BVIII 33.20	165805				
BVIII 33.21	165806				
BVIII 33.24	165808				
BVIII 33.25	165809				
BVIII 34.1	172629				
BVIII 34.5	165815				
BVIII 34.14	172639				
BVIII 34.20	165824				
BVIII 35.1	165829				
BVIII 33.1	172610	Glenn Dale, Md.	Antonowka op. Scab resist.		InL
BVIII 33.10	172613				
BVIII 33.12	172614				
BVIII 33.13	172615				
BVIII 33.15	172617				
BVIII 33.16	172618				
BVIII 33.20	172620				
BVIII 33.21	172621				
BVIII 33.23	172622				
BVIII 33.26	172624				
BVIII 33.31	172628				
BVIII 34.2	172630				
BVIII 34.4	172631				
BVIII 34.5	172632				
BVIII 34.8	172634				
BVIII 34.9	172635				
BVIII 34.10	172636				
BVIII 34.11	172637				
BVIII 34.12	172638				
BVIII 34.12	165818-A				

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Rhein</u>					
BVIII 34.13	165819	Glenn Dale, Md.	Antonowka op. Scab resist.		InL
BVIII 34.14	172639				
BVIII 34.16	172641				
BVIII 34.18	172643				
BVIII 34.19	172644				
BVIII 34.20	172493				
BVIII 34.20	172650				
BVIII 34.22	172645				
BVIII 34.23	172646				
BVIII 34.24	165827				
BVIII 34.26	172647				
BVIII 34.27	172648				
BVIII 34.29	172649				
BVIII 35.2	172652				
WV44/126	166965	Glenn Dale, Md.	Scab resist.		InL
WV44/179	172654				
WV44/190	172659				
WV44/199	172662				
WV44/203	172664				
WV44/203	165841-B				
WV44/206	172667				
WV44/209	172668				
WV44/210	172669				
WV44/212	172670				
WV44/181	165833	Glenn Dale, Md.	Scab resist.		NjB
WV44/189	165835				
WV44/199	172662				
WV44/200	165840				
WV44/206	165844				
WV44/206	172667				
WV44/212	166963				

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Alnarp</u>					
Alnarp TB 16/36	158586	Glenn Dale, Md.	Belle de Boskoop X Filippa.Fr.lge., skin yel.,sl.rus., 1/2 covered with pink dull stripes. Flesh creamy,firm, sa.good.Mid-Sept.		NjJ, NjB
Alnarp TB 38/60	158588	Sweden 1947	Canadian Reinette op. sdig.		MdG
Alnarp TB 38/60	158588	Glenn Dale, Md.	Canada Reinette X open.Fr.lge.,round oblate.Skin lt.gr., 1/2 dull orange stripes.Flesh yel.- cream,firm,sa.,qual. fair.Late Sept. Tetraploid.		NjG
Alnarp TB 269/38	158587	Glenn Dale, Md.	Mere de Manage X Transparente de Croncels.Tetraploid.		NjB

SOVIET UNION SELECTIONS

Russia

R12740-7A	AES, Indiana	Scab resist.		NjB
R12740-7A	AES, Indiana		ZP-H-307	WaP
R12740-7A	AES, Indiana	Indicator for chl- orotic leaf spot virus.		MeO*

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Russia</u>					
R12740-7A		Russia 1936	Unknown,Vig,tall tree,fruitful,Fr. 1"gr.-yel.,acid, astr,Transmits scab immun. to sdls.		ILU
Russian sdls. 45-39		Shay, Indiana		AP-H-305	WaP
Russian sdls. 65-105		Shay, Indiana		AP-H-306	WaP
Paradisda X Metchurin #1		Russia	Paradisda X Metchurin #1.Tree hardy w. excess. branching,Scab common,no blight. Fr.sim. to Florence crab but poor qual.		SdC
Bellefleur X Rekord		Intro. from Russia	Unknown.V.sim to Bellefleur Kranov. May have been confused.		SdC

SWEDEN SELECTIONS

Alnarp

Alnarp	188723	Glenn Dale, Md.	Hardy trunk or hardy rootstock.	AP-H-161	WaP
Alnarp		Ontario, Canada 1960		136	VtB

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
Alnarp 2	184382	Glenn Dale, Md.	Hardy rootstock from Sweden. Med. yel, skin. Flesh yel. soft, coarse, mild sa. Fair qual. Rootstock.		NyG
Alnarp 2		England			MeE*
Alnarp 2					InL
Alnarp (A2)		Michigan	Said to be hardy rootstock. Sensitive to stem pitting virus.		MeO*
Alnarp 37/48		Sweden via Central Exp. Farm, Ottawa, Canada	Sdlg of Belle de Boskoop. Fr. lge., skin gr.-yel. russet, 10% dull orange stripe. Flesh creamy, sl. acid. Qual. fair-good. Late Sept.		NyG

UNITED STATES SELECTIONS

Illinois

Ill No. 2	AES, Urbana, Illinois	Winesap op. High qual., good size, color, Late keeper.	IllU
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<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Illinois</u>					
Ill No. 5		AES, Urbana, Illinois	Fanny X Jefferis. Early maturing. High yield, annual bearing.		IIU, PaU
Ill. No. 9		AES, Urbana, Illinois	Yel. Transparent X Jonathan. Early maturing. High yield, red color, low qual.		IIU, PaU
Ill. No. 12		AES, Urbana, Illinois	Yel. trans. X Fanny. Yel., matures with Yel. Trans. Less acid.		IIU
Ill. No. 14		AES, Urbana, Illinois	Longfield X Fanny. Fr. med. size & color. Excel. qual. Erect tree. Mid-Aug.		IIU, PaU
Ill. No. 16		AES, Urbana, Illinois	McIntosh X Yel. Trans.		IIU
Unnamed		AES, Urbana, Illinois	Rome Beauty X M. Floribunda 821 Sib. 1" red fr. Scab imm- une, transmits to 50% of sdls.	F ₂ 26830-2	IIU
Unnamed		AES, Urbana, Illinois	Rome Beauty X M. floribunda 821 Sib. 1 1/4" conical red fr. Scab immune, transmits to 50% of sdls.	F ₂ 26829-2-2	IIU

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Illinois</u>					
Hansen Baccata No. 1		AES, Urbana, Illinois	M.baccata hybrid. Erect tree,wh. blossoms.1/2"yel. fr.,Scab resist.		IlU
Hansen Baccata No. 2		AES, Urbana, Illinois	M.baccata hybrid. Erect tree. wh. blossoms.1/2"yel. fr.,Scab resist.		IlU
Hansen Baccata No. 3		AES, Urbana, Illinois	M.baccata hybrid. Small weak tree, wh.blossoms.3/8" gr.fr. Scab resist.		IlU
Crandall's 823		AES, Urbana, Illinois	Scab resist.		InL
<u>Indiana</u>					
M.A. #4, 8, 16, 1255		Morton Arboretum Lisle, Illinois	Scab resist.		InL
26830-2, 26829-22			[Rome Beauty X M. floribunda] X [Rome Beauty X M.floribunda] Dominant gene for resist (heterozygous) for all races of scab.		InL

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Iowa</u>					
Ames 415		Ia. AES	Fr.med.size,all red,7827 Flavor good, tart, firm;late stor.(Jan) Blight suscept,Hardy.		NdM
Ames 426		Ia. AES		A3199	WyC
Ames 428		Ia. AES		A3188	WyC
Ames 464		Ia. AES	Allen Choice X Perry Russet.	N-3526	MnS
Ames 471		Ia. AES	High yielding.	A3198	WyC
Ames 550	151489	Iowa 1945	Brier X Mercer Co.		MdG
Ames 550		Inter-State Nurs., Hamburg, Iowa	Brier X Mercer Co. Crab understock used widely.		IoA
Patten 1001, 1059		Ia. AES	Patten X Grimes #7 & #8	A3192-91	WyC
Ames 5-2-19	B-37616	Ia. AES			MdG
Patten 1013		Ia. AES		A3183	WyC
Patten 1033		Ia. AES	Patten X Fameuse#2.	A3194	WyC
Patten 1034		Ia. AES	Patten X Black Annette (?).	A3193	WyC
Patten 1045		Ia. AES	Malinda X Jonathan.	A3185	WyC
Patten 1049		Ia. AES	Delicious X Patten #9.	A3196	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Iowa</u>					
Patten 1058		Ia. AES	Patten X Black Annette.	A3190	WyC
Patten 1060		Ia. AES	Wealthy X Grimes (?).	A3195	WyC
Patten 1061		Ia. AES		A31100	WyC
Patten 1062, 1063		Ia. AES	Malinda X Red Canada.	A31101- A31102	WyC
<u>Kansas</u>					
K-1, 4, 14, 22, 28, 29, 40, 41, 43, 47, 59			French Crab chance sdls. Hardy, drought resist., good scaf- fold, fireblight resist. some dwf., others standard. Compat. w. Several vars.		KaM
K-12, 18, 51, 60		Kan. AES, Manhattan		A48146- 50	WyC
<u>Maryland-</u>					
Beltsville					
USDA #1			Sel. for earliness by C.P. Close.		PaU
U.S. 15					PaU
USDA #34					PaU

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Maryland-</u>					
Beltsville					
USDA # 48					PaU
CPC 312					PaU
USDA 227-12			Woolly aphid resist. Spy sdlg, rootstocks.		PaU
USDA #1225, 1256, 1263, 1283			Northern Spy sdlg.		PaU

Minnesota

Of the 239 selections of the Minnesota breeding program reported 193 are currently maintained at the Cheyenne station. Most of them are slated for early discard. The remaining 46 are reported by six states and two federal stations. The selecting is made toward hardiness and quality for the North Central States.

New Jersey

NJ #1		N.J. Agr. Exp. Sta.			11U
NJ #2		N.J. Agr. Exp. Sta.	Melba X Twenty Ounce, Fr.med.lge.,rd.oblate, unif,short stem,yel. culin., home use.		SdC
NJ #3		N.J. Agr. Exp. Sta.	Melba X Kildare.Fr.lge. oblate, resembles McI., hangs better,matures 5 days later. May russet easier than McI.Stores well.	132	SdC VtB MiG

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>New Jersey</u>					
NJ #4		N.J. Agr. Exp. Sta.	Red Gravenstein X USDA 5. Fr. resembles Delic. Orig. tree, semi-stand. w/vig. twigs & branches May not be heavy bearer.		SdC, IlU
NJ #8		N.J. Agr. Exp. Sta.	Petrel X Early McI. Attrac., high qual. early mat.		SdC
NJ #10		N.J. Agr. Exp. Sta.	Red Rome op. Fr. med.- lge., more col. than Delic. Dess. Delic. type. Tree Rome bearing habit. Fruit hangs well, firmer than Delic.		MiG, SdC
NJ #12		N.J. Agr. Exp. Sta.	Red Rome X Melba Attrac., high qual. heavy annual bearer.		SdC, MiG
NJ #13		N.J. Agr. Exp. Sta.	Melba X Kildare. Fr. lge. oblate, striped, good finish. Flesh wh., mod. firm. Resembles Cortland but inferior qual. Late Aug.		SdC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>New York</u>					
N.Y. E6		N.Y. St. AES	Red Spy X Golden Del.Fr.lge.,75% red stripe,v.firm, v.high qual.No value as pollinator. Triploid.	127	VtB
N.Y. 49-19		N.Y. St. AES	Cortland X Lodi. Fr,resembes Cortland but lt.red.Flesh wh, firm,good dess,qual. 10dys. earlier than McI. Hangs on well.		InL
N.Y. 50-2		N.Y. St. AES	Carlton X McI.Fr. v. similar to McI. in col.,finish & flavor.Good qual. McI.type about 10 days earlier.	120	VtB
N.Y. 50-6		N.Y. St. AES	2yrs. neg. on R12740-7A.		InL*
N.Y. 50-6		N.Y. St. AES	Red Spy X Orleans.		PaU
N.Y. 50-6		N.Y. St. Fr. Test. Coop., Geneva		110	VtB
N.Y. 2503		USDA, Wenatchee			OrC
N.Y. 16884		N.Y. St. Fr. Test. Coop., Geneva	Lodi X Melba.Fr.lge. firm,attrac.,Ripens after Melba,v.prod. 2 yrs.neg. on R12740-7A.		InL*, PaU, VtB, SdM
N.Y. 17207					InL

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>New York</u>					
N.Y. 18278		N.Y. AES			PaU
N.Y. 18491		N.Y. AES			PaU
N.Y. 43021-2		N.Y. AES	Red Spy X Golden Del.Fr.lge.firm, brill,scarlet blush over lt.yel. lwk. earlier than No.Spy Dess.	128	VtB PaU
N.Y. 44408		N.Y. AES			PaU
N.Y. 44416-6		N.Y. AES	Macoun X Red Spy, Fr.firm,red blush, attrac.,good dess. Follows McI.		PaU

North Dakota-
Mandan

Breeding and selecting at the Northern Great Plains Field Station involves mostly crab selections and crab X standard varieties. Hardiness and blight resistance are the chief objectives. Of the 212 selections reported 32 are also being maintained at the Horticultural Field Station, Cheyenne.

Ohio

Ohio #2230	Ohio (1943)		OrC
Ohio #6187, 6659		2 yrs.neg. on R12740-7A.	InL*

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>South Dakota</u>					
Of the 25 South Dakota selections reported 14 are held by the Cheyenne station, 8 at South Dakota AES and 4 at North Dakota AES. Like the Minnesota and North Dakota breeding programs, the object is the production of hardy, quality fruit for the severe conditions in that area. Most of the crosses involve various crabs of demonstrated hardiness and disease resistance.					
<u>Virginia</u>					
A-8-72		Va. AES, Blacksburg	Winesap X Opalescent. Fr.highly col.,firm flesh,ann.bearing. Sizes well even with heavy crop.	V,P,I. 2	VaB
V,P,I. 1058		Va. AES, Blacksburg	Fr.med.-lge.,fair col.&finish,Flesh v.firm.arom.,good qual.Late season, long stor.	V,P,I. 3	VaB
Q.H.-11-168		Va. AES, Blacksburg	Red Rome Beauty X Schoharie,Fr.highly col.,good finish, firm flesh,good text. arom.,No.Spy flavor. Good qual.,long stor. life.Tree ann.bearer. Fr.sizes well under heavy crop.	V,P,I. 4	VaB
<u>Wyoming-</u>					
Cheyenne					
ACH # 31		San Juan, Pueblo, N. Mexico		A40564	WyC

<u>Variety</u>	<u>PI No.</u>	<u>Received From</u>	<u>Reported Comments</u>	<u>Station No.</u>	<u>Reporting Sta.</u>
<u>Wyoming-</u> Cheyenne					
ACH #33		Manzana Mexicana, Chama, N. Mexico		40566	WyC
ACH #35		Ola Manzana, Mexicana		40568	WyC
0-271, 0-292		Inter-State Nurs., Hamburg, Ia.		A54131-2	WyC

MISCELLANEOUS

M. angustifolia	49075	Arnold Arb., Massachusetts	Double flowered form at Glenn Dale (1929).		MdG
M. arnoldiana		Henry Kohankie & Son, Painesville, Ohio		A51116	WvC
M. arnoldiana 852		Arnold Arboretum	Ornamental, crab, low-spreading tree.		ILU
M. atrosanguinea		Ill. AES	Resist. to scab. Pos.on R12740-7A.		InL*
M. atrosanguinea 804		Ill. AES	Scab resist.		NjB
M. atrosanguinea 804		Arnold Arb.	Ornam. crab. Transmits apple scab resist.		ILU

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M. baccata	49077	Glenn Dale, Md.	Hardy,ht.13',Fr. yel. 3/8"diam.	7871	NdM
M. baccata	54266	Glenn Dale, Md.	Hardy,13'ht.x5' spread,Fr,reddish 1"diam.	8073	NdM
M. baccata	54267	Glenn Dale, Md.	Sdls,from P.I. 21065(Manchuria) Hardy,abt.22'ht. &spread,Fr.red,1/2",	7886	NdM
M. baccata		Not known	V.early vegetating &blossoming,Wh.fl.s. 1/4" fr.		IIU
M. baccata	128505	USSR 1938			MdG
M. baccata	148417-18	N. Dakota 1944			MdG
M. baccata		Oscar H. Will & Co. Bismark, N.D. 1950		26	VtB
M. baccata 623		Arlington Farm, Va.		A3049	WyC
M. baccata f. jackii		Ill. AES	Scab resist. Neg. on R12740-7A.		InL* Nj3
M. baccata f. jackii		Morton Arboretum Lisle, Illinois	Sm.erect tree, lge. wh.blossoms, 1/4" fr.Transmits apple scab resist.		IIU
M. baccata f. jackii	54083	Glenn Dale, Md.		8074	NdM

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M. baccata var. himalaica	103288	China 1933	Tree 15-20' high, w/wh.fl.s.Szechwan, 10,000' elev.		MdG
M. baccata var. himalaica	103289	China 1933	Tree 30' high w/wh fl.s.N.W.Yunnan, along streams at 11,500 ft.elev.		MdG
M. baccata var. mandshurica		Henry Kohankie & Son, Painesville, Ohio		A321092	WyC
M. baccata var. mandshurica		Weston Nurs., Mass.		48A34617	WyC
M. brevipes		Henry Kohankie & Son, Painesville, Ohio		A52137	WyC
M. coronaria	139236	Glenn Dale, Md.	Triploid.		NjB
M. coronaria		Not Known.	Spreading tree, late blooming, pink fls., 1" oblate fr.		ILU
M. coronaria (#5443)	139236	Pennsylvania 1940			MdG
M. coronaria		Nat. Arb. 8-29-47		B-39585	MdG
M. coronaria		St. College, Pa.		B-39648	MdG
M. coronaria var. dasycalyx	157555	Arnold Arboretum			MdG

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M. floribunda		Ill. AES	Dom.gene(heterozygous)for resist.to all known races of scab.Pos. on R12740-A derivative.		InL*
M. floribunda		Wayside Gardens, Mentor, Ohio		A4977	WyC, PaU
M. floribunda				32	VtB
M. floribunda 821		Arnold Arboretum	Ornam.crab,pink fls., 3/8"fr.Transmits apple scab resist.		ILU
M. floribunda 821		Purdue AES	Scab resist.		NjB
M. floribunda	49135	Rochester, N.Y. 1920			MdG
M. floribunda	49135	Glenn Dale, Md.	Ht.13',spread 12'subj.to fire blight injury.Fr. red, 3/8".	7869	NdM
M. floribunda	51873	Glenn Dale, Md.	Fairly hardy,ht.12',spread 8',vel.fr.,3/8".	7876	NdM
M. halliana 823		Ill. AES, Urbana	Scab resist.		NjB
M. halliana #1106	38231	China 1914	Low branching,wide- spreading flowering crab, said to bear masses of small double fls. of rosy red col.		MdG
M. halliana 823		Arnold Arboretum	Ornam.crab,lge.pink fls. Nearly sterile.		ILU
M. honanensis		Morton Arboretum	Scab resist.Neg.on R12740-7A.		InL*

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M. hupehensis		Purdue AES	Scab resist.		NjB
M. hupehensis	122586	China 1937			MdG
M. hupehensis		Morton Arboretum	Scab resist.Neg.on R12740-7A. Reacts to latent viruses.		NjB, InL*
M. ioensis	159887	Nebraska 1947			MdG
M. magdeburgensis	141213	England 1941			MdG
M. micromalus		Morton Arboretum	Crab 1/2"fr. Transmits apple scab resist.		ILU
M. micromalus		Ill. AES, Urbana	Scab resist.		NjB
M. micromalus (245-38)		Morton Arboretum	Scab resist. Pos. on R12740-7A.		InL*
M. platycarpa		W. S. Clarke, Jr., Dept.Hort.,Penn.St.Univ., Univ.Park,Pa. 6-13-59			NyG
M. platycarpa	139427	Maryland 1940			MdG
M. platycarpa	139427	Plt. Intro. Sta., Ames, Iowa, 1954	Hardy interstock.Very suscept.to fire blight.	60	MoC
M. platycarpa	139427	Rosedale, Baltimore County, Md.	Triploid.		NjB
M. platycarpa	139427	Glenn Dale, Md.		A5474	WyC
M. platycarpa	237611	England 1957			MdG
M. platycarpa	139478	Virginia 1940			MdG

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M. prunifolia		Arnold Arboretum	Crab, 3/4"yel, fr. Transmits apple scab resist.		ILU
M. prunifolia		Arlington Farm, Va.		A3053	WyC
M. prunifolia		Ill. AES	Crandall's Scab resist. Sens. to certain latent viruses. Neg. on R12740-7A.	19651	InL*, NjB
M. prunifolia	205559	Glenn Dale, Md.	Sikora type.	AP-H-247 12295	WaP NdM
M. prunifolia (782-26)		Morton Arboretum, Lisle, Illinois	Scab resist. Sens. to certain latent viruses. Pos. on R12740-7A. (as var. microcarpa)		InL*
M. prunifolia		Morton Arboretum	Crab, 1/2"fr. Transmits apple scab resist. Rptd. as var. microcarpa.		
M. prunifolia		Purdue AES	Scab resist. Rptd. as var. microcarpa.		NjB
M. prunifolia		Arn. Arb. 9-13-40	Rptd. as var. microcarpa 'Lutea',	B-35636	MdG
M. prunifolia		Bavaria, Germany	Rptd. as var. sicora.	N-4860	Mn
M. prunifolia		Purdue AES	Scab resist. Rptd. as var. xanthocarpa.		NjB
M. prunifolia		Morton Arboretum, Lisle, Illinois	Transmits scab resist. 1/2" yel, fr. Neg. on R12740-7A. Rptd. as var. xanthocarpa.		ILU, InL*
M. prunifolia var. rinki		Arn. Arb. 9-13-40	Deep red buds, fr. red, 5/8". Scab resist.	B-35635	MdG, ILU NjB

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M. pumila			17 items reported without notations. Rptd. as M. domestica Bork.		CnS
M. pumila	102177	Glenn Dale, Md.	Cider apple, non-oxidizing.		NjB
M. pumila	139431	Glenn Dale, Md.	Crab apple.		NjB
M. pumila	115081	USSR 1936			MdG
M. pumila var. niedzwetzkyana		Henry Kohankie & Son, Painesville, Ohio		A51118	WYC
M. pumila var. niedzwetzkyana 834		Arnold Arboretum	Red lvs., fls., wood, fr. Transmits red col. Only orig. source of red in wood, etc.		ILU
M. pumila var. niedzwetzkyana 834		Univ. of Maine		B-39105	MdG
M. pumila var. niedzwetzkyana	51874	Glenn Dale, Md.	Hardy, ht. and spread 21'; fr. reddish, l 1/4".	7874	NdM
M. pumila var. pendula	238028	France 1957	Rptd. as M. sylvestris var. pendula.		MdG
M. pumila var. pendula	238028	Glenn Dale, Md.	Rptd. as M. sylvestris var. pendula.	AP-H-362	WaP
M. pumila Russian #12740-7A		Ill. AES	Neg. on many vir. Scab resist. Sens. to certain latent viruses.		InL
M. purpurea var. aldenhamensis		Wayside Gardens, Mentor, Ohio		A4974	WYC

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M. purpurea		Wayside Gardens, Mentor, Ohio	Rptd.as var.atropurpurea	A4976	WYC
M. purpurea f. eleyi		Zanesville, Ohio SCS	Op.-15031 SCS.Fairly hardy. height 7',spread 3',fr.red, 3/8".	10442	NdM
M. purpurea var. lemoinei	78034	England 1928	Flowering crab w/dark bronze foliage&single deep crimson fls.		MdG
M. robusta var. persicifolia		Arn. Arb. 9-13-41		B-35628	MdG
M. sargentii		Zanesville, Ohio, SCS	SCS 15015 op.V.subj.to fire blight;ht.&spread 8'.Fr.red,1/4"diam.	10444	NdM
M. sargentii		Ill. AES	Crandall's 843 self.Scab resist.,tetraploid.Neg.on R12740-7A.		InL*
M. sargentii f. rosea		Arnold Arboretum	Diploid. Neg. on R12740-7A.		InL*, PaU
M. sargentii X self	843S	Ill. AES, Urbana	Scab resist.		NjB
M. sargentii X self		Ill. AES	Malus sargentii 843 X self. Low spreading tree,v.slow growth,wh.fl.s.,3/8"brill. red fr.M.sargentii and this sdlg.appear to be apomictic.	843S	IlU
M. sieboldii		Purdue AES	Scab resist.		NjB
M. sieboldii		Sutherland Nur.Co., Boulder, Colorado		34A342	WYC

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M. sieboldii		Morton Arb. Lisle, Illinois	1/4"red.Transmits scab resist.		I1U
M. sieboldii 852		Purdue AES	Scab resist.		NjB
M. sieboldii 852		Arnold Arb.	Low spreading trees, slow growth,grotesque twisting branches,v.tiny red blossoms and fruit.Immune to scab but nearly sterile.		I1U
M. sieboldii		Ill. AES	Scab resit.Neg.on R12740-7A.		InL*
M. sieboldii		Morton Arb.	Scab resist.Sens.to certain latent viruses.Neg. on R12740-7A.	2972-22	InL*
M. sieboldii var arborescens				B-43988	IdG
M. sikkimensis		Glenn Dale, Md.		B-39652	NjB
M. sikkimensis					PaU
M. sikkimensis		Morton Arb.	Scab resist.Neg.on R12740-7A. Slow-growing spurry tree, seldom frs.3/4"fr.reported to be apomictic.Immune to scab,but sterile.	1363-7A 1363-24	InL* I1U
M. sylvestris	222257	Seeds collected in Iran in 1954.	Fr.reported to be red&yel. w. good flavor.		PaU
M. sylvestris	222257	Geneva, N.Y. (1959)		16	VtB
M. sylvestris	209939	Glenn Dale, Md.	Sub-tropical apple from Coast of Natal,north of Durban,Low chilling.		NjB

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M. sylvestris	170036	Turkey 1948	Harlan No. 39		MdG
M. toringoides					PaU
M. toringoides		Morton Arb., Lisle, Ill.		A3780	WyC
M. toringoides	54092	Glenn Dale, Md.	Suscept. to fire blight. Not recommended.	7880	NdM
M. toringoides		Manitoba Hardy Plt. Nur., Dropmore, Manitoba, Canada		A38649	WyC
M. toringoides		Station	Unknown.	12306	NdM
M. trilobata	215544	England 1955			MdG
M. tschonoskii		Morton Arb.		A38283	WyC
M. tschonoskii	141214	England 1941			MdG
M. zumi #396		Arlington Farm, Va.		A3048	WyC
M. zumi	54094	Glenn Dale, Md.	Hardy. Ht. 19', spread 14'. Fr. yel., 3/4".	7884 A53218	NdM WyC
M. zumi var. calocarpa		Ill. AES	Scab resist. Sens. to some latent viruses. Neg. on R12740-7A.	AP-H-404	WaP NjB InL*
M. sp. 833		Arnold Arboretum	Double wh. fls., 3/4" fr. Possible value for breeding ornam. crabs. Rptd. as M. floraplana.		ILU
M. sp.		B. Tompsett, N. Toubridge, Kent, England. 3-17-61	Not fruited to date. Rptd. as M. crittenden.		NyG

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M. sp.		Station buds 1940 from seedlings at Morden	Hardy;ht. & spread about 16', Fr.red. Mandshurica.	10668	NdM
M. sp.	139431	Glenn Dale, Md.			MIG
M. sp.	102177	Glenn Dale, Md.	Orig. from Norway 1933.	A5174	WyC
M. sp.	139436	New York 1940	Possibly M. glabrata.		McG
M. sp.	238074	USDA, Beltsville, Md.		123	VtB





